



Victory Starts Here

A Short 52-Year History of the US Army Training
and Doctrine Command, 1973–2025

TRADOC Military History & Heritage Office Staff



Combat Studies Institute Press
US Army Combined Arms Center
Fort Leavenworth, KS

The cover collage photos are from Defense Visual Information Distribution Service (DVIDS).

Upper Left: Basic Officer Leadership Course (BOLC) students wear face masks during the Tactical Combat Casualty Care (TCCC) block of a field training exercise held at Joint Base San Antonio, Camp Bullis, TX, 14 April 2020. US Army photo by Jose Rodriguez.

Upper Right: US Army medics from the 1077th Medical Co. (Ground Ambulance), Kansas Army National Guard, carry a simulated casualty to a HH-60M MEDEVAC Black Hawk Helicopter, during a Mass Casualty training event in support of Golden Coyote, 16 June 2018. US Army photo by SGT Gary Silverman.

Lower Left: Rangers assigned to Delta Co., 3rd Battalion, 75th Ranger Regiment, defend their forward operating base. Rangers specialize in raids and assault missions deep inside enemy territory, 24 February 2015. US Army photo by PFC William Lockwood, 55th Signal Co.

Lower Right: SSG James Greening, a drill sergeant assigned to Co. A, 3rd Battalion, 10th Infantry Regiment, teaches an anti-terrorism class to trainees in one of the company barracks classrooms. The drill sergeants and trainees wear face coverings and keep to social-distancing protocols under the new controlled monitoring basic combat training model, 26 June 2020. US Army photo by Brian Hill.

All general officer and command sergeant major photos in this book are official Department of the Army photos.

**Victory Starts Here:
A Short 52-Year History of the
US Army Training and Doctrine
Command, 1973-2025**

**TRADOC Military History
& Heritage Office Staff**



Combat Studies Institute Press
Fort Leavenworth, KS
An imprint of the Army University Press

Library of Congress Cataloging-in-Publication Data

Names: United States. Army Training and Doctrine Command. Military History and Heritage Office, author.

Title: Victory starts here : a 52-year history of the US Army Training and Doctrine Command, 1973-2025 / TRADOC Military History & Heritage Office staff.

Other titles: 52-year history of the US Army Training and Doctrine Command, 1973-2025

Description: Sixth and final edition. | Fort Leavenworth, KS : Combat Studies Institute Press, 2025. | This is a publication issued by the United States federal government or produced with federal funds.

Identifiers: LCCN 2025044906 (print) | LCCN 2025044907 (ebook) | ISBN 9781737204800 (paperback) | ISBN 9781737204800 (Adobe pdf).

Subjects: LCSH: United States. Army Training and Doctrine Command--History. | Military education--United States--History. | Soldiers--Training of--United States--History.

Classification: LCC U408.3 (print) | LCC U408.3 (ebook) | DDC 355.50973--dc23/eng/20251125 | SUDOC D 110.2:V 66/6/2025.

LC record available at <https://lcn.loc.gov/2025044906>.

LC ebook record available at <https://lcn.loc.gov/2025044907>.

2025



Army University Press publications cover a wide variety of military topics. The views expressed in this publication are those of the author(s) and not necessarily those of the Department of the Army or the Department of Defense. A full list of digital Army University Press publications is available at <https://www.armyupress.army.mil/Books/>.

The seal of the Army University Press authenticates this document as an official publication of the US Army University Press. It is prohibited to use the Army University Press official seal on any republication without the express written permission of the director of the Army University Press.

Michael L. Hogg and Diane R. Walker, Editors
Robin D. Kern, Graphics

Foreword

In the long and celebrated history of the US Army, the service's Training and Doctrine Command (TRADOC, 1973–2025) was one of the most important and influential elements of its institutional presence. The Army's combat history is well known to Americans generally, and this last edition of TRADOC's illustrated short history seeks to complete the effort to ensure that the citizenry also knows how the command ensured the service's readiness and lethality throughout its 52-year history as an Army Command. TRADOC ended its storied era in Army history by: helping to bring the service out of the COVID-19 pandemic; ensure its ability to recruit and train the enlisted ranks in part through the innovative Future Soldier Preparatory Course (FSPC); continue to educate agile and resilient Army leaders; develop post-Global War on Terror Multi-Domain Operations (MDO) and Large-Scale Combat Operations (LSCO) doctrine for Great Power competition with the People's Republic of China and the Russian Federation; and prepare for an uncertain future through the Transformation in Contact (TiC) and Army Transformation Initiative (ATI) reform efforts that produced TRADOC's successor in 2025—the US Army Transformation and Training Command (T2COM).

As the 18th and final Commanding General of TRADOC, I recommend this last edition of the command's published history to all readers, especially those looking for how TRADOC's "Victory Starts Here" contribution to American defense fed T2COM's "Vision to Victory" dedication to continued national security.

Gary M. Brito
General, US Army
Commanding General
US Army TRADOC

Preface

What follows is the sixth and final edition of a short, illustrated history of the US Army Training and Doctrine Command (TRADOC). This 52-year version contributes to the process of ending the TRADOC era in the institutional history of the Army and beginning the era of the US Army Transformation and Training Command (T2COM) with its activation on 1 October 2025. Throughout its history, TRADOC demonstrated organizational agility, adaptability, and resilience from its activation as the Vietnam War was ending and the Cold War was entering a new phase at the conclusion of the influential Arab-Israeli Yom Kippur War, both in 1973, to the Army's preparation for the resumption of Great Power competition and possible conflict with the pacing threat of the People's Republic of China and the enduring threat of the Russian Federation at the end of the first quarter of the twenty-first century. Until its inactivation in 2025, TRADOC variously recruited and trained the Army's junior enlisted, developed and educated its leaders, formulated the service's warfighting doctrine, and helped determine its units' organization and their materiel requirements. As always, the TRADOC Military History and Heritage Office will gladly accept input from this volume's readers.

J. Britt McCarley, PhD
Director, TRADOC Military History
and Heritage Program
HQ TRADOC, Fort Eustis, VA

Table of Contents

Foreword.....	iii
Preface.....	v
Chapter One—TRADOC: A Historical Summary Post-World War I to 1973.....	1
Chapter Two—TRADOC Leadership.....	5
Chapter Three—Force Design and Weapons Development.....	35
Chapter Four—Concepts and Doctrine.....	49
Chapter Five—Training and Leader Development.....	61
Chapter Six—TRADOC in the Joint Service Arena.....	77
Chapter Seven—Organizational Structure.....	87
Chapter Eight—International Activities.....	109
Chapter Nine—TRADOC’s Final and Lasting Contributions to the US Army.....	115
Notes.....	121
Appendix A—Glossary.....	131
Appendix B—Additional Reading.....	141

Illustrations

Figure 1. TRADOC Headquarters, Fort Eustis, VA.....	4
Figure 2. GEN William DePuy.	5
Figure 3. GEN Donn A. Starry.	6
Figure 4. GEN Glenn K. Otis.....	7
Figure 5. GEN William R. Richardson.	8
Figure 6. GEN Carl E. Vuono.	10
Figure 7. GEN Maxwell R. Thurman.	10
Figure 8. GEN John W. Foss.	11
Figure 9. GEN Frederick M. Franks Jr.	12
Figure 10. GEN William W. Hartzog.....	13
Figure 11. GEN John N. Abrams.....	14
Figure 12. GEN Kevin P. Byrnes.....	15
Figure 13. GEN William S. Wallace.....	16
Figure 14. GEN Martin E. Dempsey.	18
Figure 15. GEN Robert W. Cone.	19
Figure 16. GEN David G. Perkins.	20
Figure 17. GEN Stephen J. Townsend.....	21
Figure 18. GEN Paul E. Funk II.....	22
Figure 19. GEN Gary Brito.....	23
Figure 20. CSM John F. LaVoie.	24
Figure 21. CSM Haywood F. Wren.	24
Figure 22. CSM James B. Craft.....	25
Figure 23. CSM William J.H. Peters.....	25

Figure 24. CSM Henry J. Goodwin.	26
Figure 25. CSM W.E. Woodall.	26
Figure 26. CSM Gilbert F. Paez.	27
Figure 27. CSM James C. McKinney.	27
Figure 28. CSM John J. Beck.	28
Figure 29. CSM Anthony J. Williams.	28
Figure 30. CSM John D. Sparks.	29
Figure 31. CSM David M. Bruner.	30
Figure 32. CSM Daniel A. Dailey.	30
Figure 33. CSM David S. Davenport.	31
Figure 34. CSM Timothy A. Guden.	32
Figure 35. CSM Daniel T. Hendrex.	33
Figure 36. CSM Raymond S. Harris.	33
Figure 37. M-1 Abrams Tank, one of the “Big Five.”	43
Figure 38. Mine-Resistant Ambush Protected (MRAP) vehicle.	46
Figure 39. LTG H.R. McMaster, as director, ARCIC, speaking about Multi-Domain Battle (MDB).	57
Figure 40. GEN Perkins speaking on MDB at LANPAC, 25 May 2016.	59
Figure 41. Basic Training, Fort Benning, GA.	71
Figure 42. Fort Rucker Aviation Basic Officer Leadership Course (BOLC), 16 May 2013.	76
Figure 43. GEN Robert W. Cone and LTG David D. Halverson discuss joint observation with Lt. Col. (USAF) Rustan S. Swichtenberg.	79
Figure 44. BG Richard W. Haldenby, deputy director of Joint Warfare for the British Armed Forces Command, talks with David G. Paschal, deputy director of HQ TRADOC G-2’s Training Brain Operations Center, Newport News, VA.	84

Figure 45. TRADOC Organization, 1973.	87
Figure 46. New G-Staff Organization, 2007.	91
Figure 47. TRADOC Organization, early 2013.	100
Figure 48. TRADOC Organizational Chart showing US Army Center for Initial Military Training (CIMT) placement, late 2022.	102
Figure 49. AWG logo.	106
Figure 50. TRADOC CG GEN Paul E. Funk II spoke at the official AWG Color Casing Ceremony, 13 March 2021.	107
Figure 51. REF logo. Source: US Army.	108
Figure 52. TRADOC Organization, 2017. Created by Army University Press.	109
Figure 53. LTG Bruno Kasdorf, German Army chief of staff, meets with LTG David Halverson, TRADOC DCG/chief of staff.	110
Figure 54. LTG David Halverson, TRADOC DCG/CoS, visits with MG Farah Mohamed, Tanzania People’s Defense Force chief of operations and training, at HQ TRADOC, Fort Eustis, VA.	113

Chapter One

TRADOC: A Historical Summary Post-World War I to 1973

After World War I, the forces which eventually created TRADOC were expressed in various iterations, but can be summarized as limits on the span of control. In 1940, General Headquarters (GHQ), US Army, soon experienced conflicts between its training responsibilities on the one hand, and the command and control (C2) of ground combat troops and their supporting forces on the other. Training generally got short shrift, as filling manpower requirements was often deemed more important.

The functions of training and warfighting were separated in 1942; the newly reorganized War Department retained control of ground combat forces and supporting elements, while the training responsibility was transferred to the newly established Army Ground Forces (AGF). For cost-effectiveness, these functions were again combined into the AGF in 1945, per the recommendations of both the Patch and Simpson boards, despite the Army's recent experience. In 1948, the redesignated Department of the Army established the Office of the Chief of Army Field Forces (OCAFF) as its training arm. The predictable problems of span of control, etc., led to yet another call for reorganization under yet another committee—the Davies Committee—which resulted in the creation of the Continental Army Command (CONARC) in 1955, again combining training with C2 of ground forces.¹

CONARC was responsible for all active Army units in the Continental United States (CONUS) as well as training centers, schools, and doctrine development. In 1962, combat developments was transferred to the purview of the newly created Combat Developments Command (CDC). Span of control was again clearly too large, resulting in the Parker Board of 1969. The Chief of Staff of the Army (CSA), General (GEN) Creighton W. Abrams Jr., then initiated OPERATION (OPN) STEADFAST, which was executed by his assistant vice chief of staff, Lieutenant General (LTG) William E. DePuy. Per the recommendations of OPN STEADFAST, the CDC and CONARC were both inactivated, and on 1 July 1973, two new organizations were activated: the United States (US) Army Forces Command (FORSCOM) assumed control of the Active Duty armies and units in CONUS and the US Army Training and Doctrine Command (TRADOC) assumed control of training centers, Army schools, doctrine development, and combat developments.

Both TRADOC and FORSCOM maintained their own installations until the US Army Installation Management Agency (later US Army Installation Management Command, or IMCOM) assumed responsibility

for all Army installations in 2002. The establishment of TRADOC was revolutionary in the US Army. For the first time in its history, basic and advanced individual training, Army branch schools and Army colleges, Reserve Officers' Training Corps (ROTC), analysis, doctrine development, and combat developments were all the responsibility of a single headquarters. That TRADOC was a major command (MACOM) under the leadership of a full general indicated its importance in the new scheme of things. Later, the terminology became Army Command (ACOM) and the MACOM term was applied to other organizational structures.

TRADOC put combat developments into the schools, and focused upon the development of the Army's tactical organizations, weapons and equipment, doctrine, and the training of soldiers within that doctrine. TRADOC also needed to reorient the Army's thinking toward the Soviet Union's dangerous and growing strategic threat to the North Atlantic Treaty Organization (NATO) alliance. The situation was exacerbated by what military observers in the United States and Europe described as a *lost decade* of weapons development by the US Army, stemming from a 10-year concentration on fighting and equipping for the Vietnam conflict.

TRADOC came into existence during the American defense policy reorientation from Vietnam to NATO, Europe, and the challenge of the Warsaw Pact buildup. Those efforts fundamentally transformed the Army into a modernized, trained, and ready force. The US Army helped rebuild and synchronize with other NATO forces, and that successful alliance of trained forces was a significant component of the successful political-military-economic challenge which ultimately brought an end to the Cold War in 1989–91. The highly trained, professional Army of Excellence (AOE) combat units helped restore democratic government to Panama in OPN JUST CAUSE in 1989–90, and later expelled the armies of Iraq from Kuwait in OPN DESERT STORM in 1991. This same Army increasingly provided peace operations and humanitarian relief in places such as Somalia, Bosnia-Herzegovina, Haiti, and Rwanda; and aided victims following various natural disasters, and the terrorist attacks on the Pentagon, Shanksville, and the World Trade Center in September 2001.

In 1973, TRADOC had the first immediate task of solving why there seemed to be a shortage of quality junior noncommissioned officers (NCOs) in the Army. The simple answer was that any junior NCOs from World War II, Korea, or even the early stages of Vietnam would no longer be *junior* but either senior NCOs, or retired. A definitive, proper education system was required, something that went beyond the technical dimensions of the Military Occupational Specialty (MOS)—or job—that a sol-

dier might hold. This eventually resulted in the establishment of the tiered NCO Education System (NCOES).

While beginning to grapple with the issue of NCO training, the second major event—one which is still studied extensively today—was the Yom Kippur War (also known as the Ramadan War, '73 War, and the October War). This began on Saturday, 6 October 1973, and ended Thursday, 25 October 1973. A coalition of mostly Arab states led by Egypt in the south and Syria in the north, augmented by forces from Iraq, Jordan, Saudi Arabia, Algeria, and Morocco, conducted a surprise attack against Israel on their holiest of Holy Days. Many of the Arab states were supplied by the Soviet Union/Warsaw Pact, while Israel had received US/NATO equipment. That fact caused many military analysts from several nations, east and west, to view the conflict in terms of a proxy war between the United States and the Union of Soviet Socialist Republics (USSR) (Cyrillic alphabet: CCCP). When the Israel Defense Forces (IDF) succeeded while fighting at odds greater than 3:1, TRADOC, as the conceptual and doctrinal arm of the Army, engaged in detailed talks to learn how this was accomplished. This resulted in a revolution in US Army doctrine, simultaneous with the push for new equipment to counter the expansionist Warsaw Pact threat in Europe, detailed in *Chapter 4: Concepts and Doctrine*.

Challenges after TRADOC's Creation

Throughout the 1970s and 1980s, pressure on multiple fronts—diplomatic, informational, military, and economic (DIME)—resulted in the collapse of the USSR (25 December 1991) and the Warsaw Pact (1 July 1991). This created a new strategic world by the early 1990s. For a brief decade, the United States remained as the single superpower in an international order in which it could act with greater freedom to support national independence and democratic and free-market institutions.

To many policymakers, the situation seemed to dictate a smaller Army whose readiness was assured by new technology. LTG H.R. McMaster, former Army Capabilities Integration Center (ARCIC) director, was fond of publicly stating that this tragic *faith in technology* is an errant philosophy that simply will not die, like a vampire, no matter how many times it is proven invalid.² In the mid-1990s, TRADOC institutionalized these new directions as the mid-future Army XXI, which included Force XXI, the TRADOC-led effort to determine future force structure based on digitally equipped forces.

Beginning in late 1999, several major Department of the Army (DA) initiatives—collectively termed *Transformation*—looked to Army

weapons, force structure, training, and doctrine well into the 21st century. TRADOC was in the vanguard of that effort. Technological advances enabled increased accuracy, range, payload, and lethality from synchronized near-real-time intelligence, surveillance, reconnaissance (ISR), merged with sensors autonomously capable of target detection, categorization, recognition, identification, and communications. This evolution of a new strategic world and the emergence of a higher form of warfare and lethality occurred simultaneously with a US military establishment sharply drawing down in the wake of Soviet power retrenchment. Against this background of radically altered strategic assumptions came the 11 September 2001 attack on the United States and the beginning of the Global War on Terrorism (GWOT).

Once again, TRADOC was challenged to develop doctrine and train soldiers for different type of warfare than that of the Cold War, or the first Gulf War of 1990–91. The war in Afghanistan (2001–2021) was marked primarily by counterinsurgency operations (COIN) while the War in Iraq (2003–2011) was characterized by both conventional and COIN warfare.

In the midst of developing appropriate training for the new warfare challenge, TRADOC was subjected to the 2005 Base Realignment and Closure (BRAC), resulting in closing Fortress Monroe and constructing new buildings for the headquarters and ARCIC on nearby Fort Eustis, VA.



Figure 1. TRADOC Headquarters, Fort Eustis, VA. Source: US Army photo.

Chapter Two TRADOC Leadership

The Commanders

During its 52-year history, TRADOC had 18 commanders. Their unique contributions are briefly described below.

GEN William E. DePuy

GEN William E. DePuy served as TRADOC's first commanding general (CG) from July 1973 to 1977. He initially addressed TRADOC's mission to get the Army ready to fight the next war, and his primary concerns were improvements in individual training, better support for training in units, new training doctrine, and a new emphasis and direction for combat developments activities. To correct the training difficulties inherited from the Vietnam War, DePuy adopted a *back-to-basics* approach. Officer training courses were to prepare officers for their next assignment, the physical aspects of Basic Combat Training (BCT) were toughened, and Advanced Individual Training (AIT) was made more performance-oriented. Another of DePuy's major projects was the production of *how to fight* manuals and films that set forth Army doctrine in simple language. In addition, the Army Training and Evaluation Program (ARTEP) brought standardization to Army training.



Figure 2. GEN William DePuy.

GEN DePuy and the TRADOC staff also made combat developments a prime concern. The process had to be harnessed to the present and near future. Heavily influenced by the 1973 Yom Kippur War with its increased lethality, especially in armored warfare, GEN DePuy adjusted his emphasis from training the Army to *win battles* in the general sense, to specifically *winning the first battle of the next war*. This was a direct lesson learned from the initial battle of the Yom Kippur War, which was so critical to the Israeli Army success. Due to the small size of the TRADOC headquarters staff, the functional centers and schools undertook a major portion of the combat developments mission and the systems acquisition process. GEN DePuy instituted the installation contract system as a major innovation for

improving management of the TRADOC structure and its installations. That document provided a medium for agreement between each installation commander and the TRADOC commander, specifying the tasks to be performed and the resources provided. Believing that doctrine should emanate from the highest levels of leadership, GEN DePuy created a Tactical Doctrine Office separate from both combat developments and training functions that reported directly to him. During his tenure, the capstone document, Field Manual (FM) 100-5, *Operations*, was significantly revised to provide the basis for the aforementioned *how to fight* series and came to play a more central role in defining Army doctrine.

GEN Donn A. Starry

GEN Donn A. Starry became the second CG, TRADOC, in July 1977. The key concept for internal affairs during his tenure was *decentralization*. Accordingly, he began a pronounced decentralization of major projects to the integrating centers and schools. In line with that approach was his decision to move the three-star TRADOC deputy commanding general (DCG) position from Fort Monroe, VA, co-located with TRADOC headquarters, to Fort Leavenworth, KS.



Figure 3. GEN Donn A. Starry.

Doctrinally, GEN Starry sought to answer what had come to be a substantial discussion and controversy over the Active Defense concept of the 1976 version of FM 100-5. He brought to TRADOC the idea of an integrated and extended battlefield—the *Central Battle*—to engage the enemy not only *at the point of attack* but also *in depth*. Another revision of FM 100-5 began almost immediately. The concept required extension of the combat developments period out 8 to 10 years, departing from GEN DePuy's focus on near-term problems. Following this approach, GEN Starry hoped to harness the combat power of the oncoming generation of weapons and other modernization efforts.

GEN Starry inherited from GEN DePuy a process already underway to restructure divisions. He redefined division restructuring within a larger context that resulted in the first *Battle Development Plan* in 1978. Conceptualization of what came to be termed *Division 86* and subsequent studies of corps and Echelons Above Corps (EAC) defined *Army 86*, which was

the framework for force development that replaced the DePuy division restructuring. The fundamental conceptual and doctrinal premises for the studies became known as AirLand Battle.

GEN Starry assumed and expanded GEN DePuy's initiatives on training in a program dubbed *Army 1990*. Of special concern was TRADOC's promotion of the need for a Combined Arms and Services Staff School (CAS3) for captains. Subsequently, the findings of a panel known as the Review of Education and Training for Officers (RETO) revolutionized both organization and execution in TRADOC schools.

After commanding TRADOC from 1981 to 1983, GEN Starry finished his illustrious career as commander, US Readiness Command—a Unified Combatant Command (UCC) headquartered at MacDill Air Force Base (AFB), FL.

GEN Glenn K. Otis

GEN Glenn K. Otis followed GEN Starry as TRADOC CG in August 1981. Internal to the command were his *3Ms*—management goals of mobilization planning, maintaining the force, and modernization of the force. In all three areas, training stood first in his list of priorities. Mobilization planning involved development of programs of instruction, training base expansion capacity, and equipment requirements. Maintenance of the force concentrated on training and maintaining the momentum of the previous command. Force modernization challenges included managing the phase-in of interim and new organizations and the development of support packages for training (spare parts, maintenance, and field manuals). Given the recommendations of the RETO Study, ongoing changes in enlisted training, and the implications of AirLand Battle doctrine, GEN Otis tended to look ahead for approximately 10 years. At his last TRADOC Commanders Conference in the fall of 1982, GEN Otis added a fourth *military history*.



Figure 4. GEN Glenn K. Otis.

Over the course of 1982, TRADOC headquarters developed a set of command goals—what TRADOC would do—to directly support the recently promulgated seven Army goals. The seven Army goals addressed readiness, the human element, leadership, materiel, future development,

strategic deployment, and management. With TRADOC's declared purpose to prepare the Army for war, its attendant missions, as stated, were to develop doctrine, to conduct and guide Army combat developments, to develop and maintain the Army training system, and to command installations and organizations. The development of a specific set of TRADOC goals prioritized activities and served as a tool for the application of resources, a touchstone for defining future roles of the command, a resource for the development of a formal document that would come out during his successor's tenure, and a measure for progress. The new version of FM 100-5 codifying AirLand Battle, begun under Starry, was published 1982.

Many substantial initiatives came to the fore during GEN Otis's 18-month term as commander of TRADOC. Late in 1981, GEN Otis determined that the time had come to step back and evaluate what had been accomplished in training and to plan for what would take place in the following decade. That initiative developed into the Army Training 1990 concept. In addition, a much greater use of simulators and simulations quickly developed. Significant also was the establishment of the School of Advanced Military Studies (SAMS), a postgraduate extension of the Command and General Staff College (CGSC) at Fort Leavenworth, KS, focusing on the operational level of war. In the force design arena, *light versus heavy* debates intensified as the Army established a High Technology Test Bed (HTTB) at Fort Lewis, WA, to experiment with lightening the Infantry Division, in *Division 86*.

GEN Otis went on to serve as commander in chief (CINC), US Army, Europe (USAREUR) and 7th Army, before retiring from the US Army.

GEN William R. Richardson

GEN William R. Richardson became the fourth TRADOC CG in March 1983. In accordance with Secretary of the Army (SECARMY) John O. Marsh Jr.'s *Year of Excellence*, GEN Richardson introduced the watchword for his tenure, *Excellence Starts Here*. Early in his command, he spelled out his priorities: better training, implementation of new doctrine, force modernization and integration, and mobilization of the Reserve Component. With regard to training, he spent much time tying up the loose ends of Army 1990 and overseeing



Figure 5. GEN William R. Richardson.

a new initiative termed *School Model 86*. The former focused on performance-oriented training, while the latter was an effort to give back to the director of training and the academic departments of the TRADOC schools the importance to resident instruction and doctrine writing he believed had been usurped over time.

GEN Richardson was commander at a time when much of the work of his predecessors was coming to fruition across the Army. FM 100-5 was rewritten and promulgated, and the derivative manuals were being written in the schools; the training program was solidly emplaced; the development of the organizational design of the Army of Excellence (AOE) was undertaken; and the Big Five weapons systems were coming on line. The *Big 5* were: the M1 Abrams tank, the M2 Bradley Fighting Vehicle, the Apache Attack Helicopter, the Blackhawk Utility Helicopter, and the Multiple Launch Rocket System (MLRS).

One of the biggest challenges GEN Richardson noted for TRADOC was the recruitment and retention of good people within the command. One priority was to change the attitudes of officers and soldiers who considered assignment to TRADOC a dead end. GEN Richardson was responsible for the establishment of several new agencies and departments at Fort Leavenworth, KS. Believing the heart of the Army was TRADOC and the heart of TRADOC was Fort Leavenworth, he continued the development of SAMS and also created the School for Professional Development, the Center for Army Leadership, the Combined Arms Training Activity, the Center for Army Lessons Learned (CALL), and the Combined Arms Operational Research Activity. A final significant reorganization was the transformation of the Deputy Chief of Staff (DCS) for the ROTC into the US Army Cadet Command as a major subordinate command of TRADOC.

GEN Carl E. Vuono

GEN Carl E. Vuono became the fifth CG TRADOC in June 1986. He announced that his mission focus would have two aspects. Taking a somewhat more restricted view of the concept of *preparing the Army for war* than GEN Richardson, GEN Vuono stressed that TRADOC had to not only prepare the Army for war in the present, but it must look farther ahead in time as the *architect of the future*. He stressed that TRADOC must consider the whole spectrum of war, and while addressing current challenges, not neglect the design of the force 10 to 15 years out. He reoriented the 10 TRADOC goals into 6 major imperatives: doctrine, organization, training, leader development, materiel, and soldiers (DOTLMS). TRADOC's responsibility was to ensure understanding of what the Army must be to win on the future bat-

tlefield. That understanding would provide vision and direction for the Army.

GEN Vuono instituted doctrinal development guidelines and derived the concept of the advanced collective training facilities, which led to the opening of the Joint Readiness Training Center at Fort Chaffee, AR, and the Combat Maneuver Training Center at Hohenfels, (West) Germany, and the initiation of the Battle Command Training Program (BCTP) at Fort Leavenworth, KS. Force modernization efforts concentrated on improved application of the Concept Based Requirements System and a new emphasis on a system of systems approach to equipment modernization. Leader development was concentrated in the development of small group instruction and the invigoration of the NCOES. His program of *leading and caring* stressed excellence both in individuals and in the installations of which they were a vital part. The TRADOC Long-Range Plan, published in May 1987, was perhaps GEN Vuono's most ambitious effort. Designed to support TRADOC's mission as the architect of the future, the plan constructed a vision of the command 10 years out based on Army long-term planning, the Program Objective Memorandum (POM), and TRADOC goals.

After his tour of duty at TRADOC, GEN Vuono went on to become the CSA from 1987 to 1991.

GEN Maxwell R. Thurman

GEN Maxwell R. Thurman became the sixth TRADOC CG in June 1987, and stressed the command's role as the key player in shaping the *azimuth for the Army of the future*. As set forth in a program known as *Vision 91*, GEN Thurman's stated objective was to serve the Army in the field. That would be accomplished by writing the doctrine by which it would fight, testing that doctrine for soundness, designing well-balanced and capable forces, articulating the equipment requirements

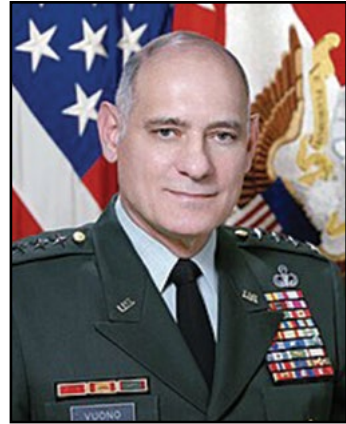


Figure 6. GEN Carl E. Vuono.



Figure 7. GEN Maxwell R. Thurman.

of the commanders in the field, providing combat-ready soldiers to units around the world, and developing future leaders.

Vision 91 examined the central question of how the command should position itself to meet the challenges of 1991 and beyond. That period would be a time of substantial manpower and funding constraints. Vision 91 sought to address the evolution of doctrine, especially in the joint arena; a more focused force design; a System-of-Systems (SOS) approach to materiel development; full-service leader development; tough, realistic training; and well-developed mission support capability.

While Vision 91 addressed the immediate period, GEN Thurman developed a 30-year TRADOC Long-Range Planning Vision, which solicited the thoughts of the subordinate commanders toward the further development of a new long-range plan.

Earlier, GEN Thurman had been responsible for the highly successful *Be All That You Can Be* Army recruiting slogan in 1979. Despite having applied for retirement, GEN Thurman was hand-picked by President George H.W. Bush to serve as Commander in Chief (CINC), US Southern Command (USSOUTHCOM). He planned and executed OPN JUST CAUSE, the 1989 invasion of Panama to oust the dictator GEN Manuel Antonio Noriega Moreno.

GEN John W. Foss

GEN John W. Foss became the seventh TRADOC CG in August 1989, as the Army began a period of downsizing and strategic reorientation. A variety of factors—international, national, political, and economic—had combined to compel the Army to change into a more flexible, smaller force. The concept of the three TRADOC integrating centers, which traditionally was part of the organization, gave way in 1990 to two major subordinate commands: the Combined Arms Command (CAC) and the Combined Arms Support Command (CASCOM). Also in October 1990, TRADOC eliminated the installation contract by which the TRADOC commander had managed the outlays of the installations since the mid-1970s.



Figure 8. GEN John W. Foss.

As the effects of geopolitical change were felt during the 1990s, beginning with the fall of the Berlin Wall on 9 November 1989, the primary focus of the Army began to shift to the projection of land combat power from CONUS, as well as from forward-deployed forces where possible. That had implications across the force, from warfighting doctrine to organizational structure to equipment to training.

Foss addressed doctrinal challenges and changes through AirLand Battle-Future studies, doctrinal discussions, and map exercises, focusing on the nonlinear battlefield and the doctrine, organization, and logistics it would require. AirLand Battle-Future, later termed AirLand Operations, became the driving concept for TRADOC. Further, GEN Foss directed the beginning of a revision of FM 100-5 to expand the doctrine into the strategic realm, although OPN DESERT SHIELD and OPN DESERT STORM in 1990–91 interrupted the effort.

GEN Frederick M. Franks Jr.

GEN Frederick M. Franks Jr. became the eighth TRADOC CG in August 1991. Franks set down his ideas regarding TRADOC's future in five points: lead the Army through intellectual change; sustain excellence and relevance in training and leader development; propose modernization alternatives to maintain the technological edge for soldiers on future battlefields; foster organizational excellence; and focus on soldiers. The new TRADOC commander began afresh the doctrinal revision of FM 100-5. Convinced that doctrine was the basis of change and had to be a centerpiece of TRADOC activity, revision of FM 100-5 became a top priority to lead the Army through the intellectual readjustment from the Cold War to the post-Cold War Army. In addition, GEN Franks instituted battle laboratories as a means to develop the capabilities for a *force projection* Army. The battle laboratories focused on the areas where the battle appeared to be changing and encouraged experimentation using simulations, prototypes, real soldiers, and real units to make the best use of technology and new requirements.



Figure 9. GEN Frederick M. Franks Jr.

In his long-range planning guide for TRADOC, GEN Franks interpreted TRADOC's missions specifically. They were to: Set training stan-

dards and run the Army schoolhouse; provide modernization alternatives while representing the user to allow the Army to retain the battlefield edge; help the Army look to the future in warfighting; and foster organizational excellence.

His tenure was immediately preceded by the dissolution of the Warsaw Pact on 1 July 1991, and the dissolution of the USSR on 25 December 1991, which fundamentally altered US Defense requirements, and therefore the US Army and TRADOC's priorities.

GEN William W. Hartzog

GEN William W. Hartzog became the ninth TRADOC CG in October 1994. Like GEN Franks, GEN Hartzog's efforts to meet the challenges of being the TRADOC commander took place against a background of a new global reality in which the primary concern was no longer a classic European air and ground war, but rather the possibility of many small operations. Further, the dramatic downsizing of forces to levels not seen since the pre-World War II era also shaped both GEN Hartzog's and TRADOC's thinking and policy. Another factor that he had to consider in shaping the force of the future was the Army's increasing involvement in peace operations, nation-building, and humanitarian relief.



Figure 10. GEN William W. Hartzog.

GEN Hartzog's thinking about the 21st century Army was established in the *Force XXI Operational Concept*. The key to the developmental work on Force XXI was a digitized Experimental Force (EXFOR) that stood up at Fort Hood, TX, in 1994. Central to the shape of future forces was a series of Advanced Warfighting Experiments (AWE) beginning in April 1994, prior to GEN Hartzog's arrival at TRADOC, and continuing through March 1998. Looking even further into the future was an *Army After Next* project that sought to establish criteria for the Army by 2020.

GEN Hartzog's tenure saw the publication of two versions of TRADOC Pamphlet (Pam) 525-5, *Force XXI Operations*, based on the Force XXI concept and leading to the publication of a new FM 100-5, *Operations*. The concept also guided the development of tactics, techniques, and

procedures (TTP) to be employed by the EXFOR in executing the various AWE. In turn, TTP supported further doctrine development for the execution of operations across the seven battlefield operating systems (BOS) and at each echelon of operations.

GEN John N. Abrams

GEN John N. Abrams became the 10th TRADOC CG in September 1998. His vision for the command was to prepare the Army for *decisive victory* in the full range of required joint and combined operations. This focus meant providing soldiers and leaders with disciplined training based on fully developed doctrine, leader development, organizations, and materiel. It also meant providing a readiness infrastructure for training and projecting Army forces. Coupling that determination with the requirement to transform the Army's education and training, Abrams led the Army's effort to rethink the entire leader development process, including resident training, advanced distance learning, and individual study.



Figure 11. GEN John N. Abrams.

During GEN Abrams's command, two forces of change were propelling the Army in new directions: The ongoing efforts to make the Army more deployable, and the revolution in computer and communications technology that had the potential of increasing battlefield awareness at all levels. In an address on 12 October 1999, CSA GEN Eric K. Shinseki made the case for *transformation* of the Army, specifying the need for both doctrinal and materiel change. A large portion of the challenges posed fell on TRADOC as the Army's *architect of the future*. Responsibility of a Brigade Coordination Cell (BCC) for designing two Interim Brigade Combat Teams (IBCTs) at Fort Lewis, WA, also fell to TRADOC. This led to the successful adoption of the Interim Armored Vehicle STRYKER as a ground combat vehicle used as part of an Infantry formation.

To further the understanding of possible future warfare, GEN Abrams instituted a series of Seminar War Games (SWG) beginning in July 2001. The SWG simulated the long-range deployment of an interim force and looked to define the objective force of the future and the Future Combat System (FCS). Unfortunately, the FCS effort resulted in the expenditure

of not less than \$18 billion with few tangible results.³ *Transformation* also called for a revision of the Army's capstone doctrine, FM 100-5, *Operations*. A new version, renamed and carrying the Joint Services number of FM 3-0, was published in the summer of 2001. The new doctrine was clearly cognizant of the changes in the nation's geostrategic position and addressed the problems of deployment, asymmetric warfare, and the need for joint operations from major theaters of war to humanitarian relief.

Effective 15 February 2002, the US Army Accessions Command was established as a major subordinate organization (MSO) of TRADOC. The new command included the US Army Cadet Command (USACC), the US Army Recruiting Command (USAREC), and the US Army Training Center (USATC), Fort Jackson, SC. The purpose of establishing the command was to combine accessions and Initial Entry Training (IET) under a single headquarters.

GEN Kevin P. Byrnes

GEN Kevin P. Byrnes became the 11th TRADOC CG in November 2002, and was the first TRADOC commander whose entire tenure occurred during wartime. Reassessing the command's missions, he reaffirmed that training and leader development would be TRADOC's number one priority, especially at the IET and NCOES levels. Quality instructors and exported training—making use of technology for distance learning to reach soldiers wherever they served— would also be important. In addition, GEN Byrnes stressed innovation, jointness, accession and recruiting, development of the future force, and people. As part of the development of the future force, GEN Byrnes emphasized a sense of urgency in helping the Army accelerate the transformation process and in enhancing the credibility of current Transformation initiatives, especially by soliciting ideas and proposals from industry. Perhaps even more important was the necessity to demonstrate the links between Army transformation and Department of Defense (DoD) joint initiatives, to include joint exercises. GEN Byrnes planned for TRADOC to become a futures command that would serve the Army well on the fielding of the *Objective Force* and be a link to US Joint Forces Command (USJFCOM),

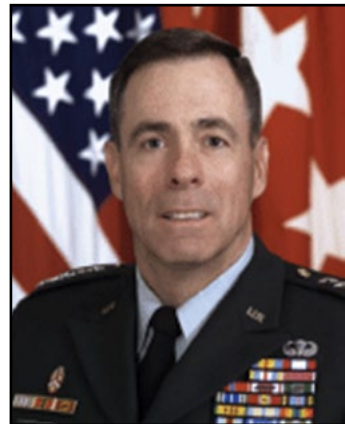


Figure 12. GEN Kevin P. Byrnes.

Norfolk, VA, and the other Services. (USJFCOM existed from 7 October 1999 to 31 August 2011.)

In line with Byrnes's goals, TRADOC headquarters was reorganized, and a Futures Center was established in October 2003. The center realigned functions and resources from the TRADOC staff and the objective force task force to develop and integrate into a joint warfighting environment, all aspects of the future force from concepts to capability. It was tasked to develop and integrate joint and Army concepts, architectures, and doctrine, organizations, training, materiel, leadership and education, personnel, and facilities (DOTMLPF) capabilities.

Under GEN Byrnes's direction, TRADOC planned and briefed downsizing options to Congress during the BRAC sessions of 2005. This effort was done to preserve the schools and branches, regimental history, and to realize savings by consolidating or relocating schools and functions.⁴

A few months before he was scheduled to retire, GEN Byrnes stepped down from command of TRADOC for personal reasons.⁵

GEN William S. Wallace

GEN William S. Wallace became the 12th TRADOC CG in October 2005. Like his predecessor, he was a wartime commander. GEN Wallace's view was that TRADOC was the *architect of the Army* to shape both today's Army and the future combat force. The TRADOC mission was: to recruit, train, and educate the Army's soldiers; develop its leaders; support training in units; develop doctrine; establish standards; and build the future Army. GEN Wallace also believed that TRADOC thought for the Army. As such, it had to meet the demands of a nation at war while simulta-



Figure 13. GEN William S. Wallace.

neously anticipating solutions to the challenges of tomorrow. To properly perform these functions required changes in the way TRADOC viewed its mission. All activities were directed to provide input that reflected and assisted with the Contemporary Operating Environment (COE). Basic and advanced training were conducted to reflect the wartime challenges faced by soldiers in the field. Because much of the military operations occurred in cities in Iraq, Military Operations in Urban Terrain (MOUT) became

part of training as did training in dealing with different cultures. Stability operations (STABOPS) became the key to success, and doctrine needed to reflect this development.

When GEN Wallace assumed command, the existing edition of FM 3-0 was already 4 years old, and was published well prior to the attacks on the Pentagon, Shanksville, PA, and the World Trade Center on 11 September 2001. The 2008 version of FM 3-0 was evolutionary but had four revolutionary aspects. It stressed the importance of stability operations with a *whole of government approach*, it acknowledged the critical nature and influence of information operations, it forged an operational concept that drove initiative and embraced risk to create opportunities, and it emphasized the central role of the commander in full spectrum operations.⁶ To accomplish TRADOC's missions, Wallace set the command's priorities as safety; supporting our nation at war; recruiting and training quality warriors; developing adaptive, innovative leaders; and designing the Army's modular force. He also adopted the motto *Victory Starts Here* for TRADOC (first used by the Army Training Center, Fort Jackson, SC).

There were significant reorganizations of TRADOC during GEN Wallace's tenure as commander. TRADOC continued to design the current Army modular force and the future combat force. The Futures Center established under GEN Byrnes grew and became the ARCIC in 2006. In 2007, the TRADOC staff was reorganized to more closely align the command's responsibilities with those of the Army Staff. These changes made TRADOC more responsive to Army missions. A third change occurred near the end of Wallace's tenure when the US Army Accessions Command (USAAC) became directly subordinate to the DA in October 2008, before being eliminated on 18 January 2012. GEN Wallace also helped implement the Congressional BRAC guidance pertaining to the establishment of the Centers of Excellence (CoEs).

GEN Martin E. Dempsey

GEN Martin E. Dempsey became the 13th TRADOC CG on 8 December 2008. Prior to his assignment at TRADOC, GEN Dempsey was the Deputy Commander of US Central Command, later serving as Acting Commander of the same from 28 March to 30 October 2008. Upon assuming command of TRADOC, GEN Dempsey was immediately presented with a unique set of challenges. He was a wartime commander because the Army was still fighting in Afghanistan and Iraq, but resources were being reduced. Because he was new to TRADOC, GEN Dempsey allowed himself 90 days

before he promulgated a vision for the command. One problem he saw was the time it took to get new doctrinal material to the field and revise training. Rather than have a completely hierarchical organization in which most major decisions were made by the TRADOC commanding general, GEN Dempsey decided that TRADOC should be doctrinally decentralized and become *commander-centric*. This allowed the commanders of the relatively newly established CoEs and their school commandants to make appropriate doctrinal decisions, while the TRADOC Commander concentrated on the future. Another of GEN Dempsey's goals was to streamline the processes that generated products. Developing adaptive leaders was a top priority. An additional focus was his support of the Army Force Generation (ARFORGEN) model.



Figure 14. GEN Martin E. Dempsey.

One of the significant milestones of GEN Dempsey's tenure was the publication of the December 2009 TRADOC Pam 525-3-0, titled *The Army Capstone Concept—Operational Adaptability: Operating Under Conditions of Uncertainty and Complexity in an Era of Persistent Conflict*. It described what the future Army must do as part of the joint force to achieve the nation's strategic objectives. It was predicated on the Army's enduring missions and the future operational environment. Arguably the most important doctrinal development of GEN Dempsey's time as TRADOC Commander was the publication of a new edition of FM 3-0, *Operations*, in February 2008.

On 11 April 2011, GEN Dempsey left TRADOC to become the CSA, and then on 1 October 2011, he became Chairman of the Joint Chiefs of Staff. GEN Dempsey was the only former TRADOC commanding general to achieve the latter position.

GEN Robert W. Cone

GEN Robert W. Cone was the 14th TRADOC CG, beginning 29 April 2011. He had previously served as commander, III Corps and Fort Hood, TX, and deputy commanding general (DCG)—Operations, for US Forces-Iraq. Like his most recent predecessors, he was a wartime commander who faced a number of unique challenges, one of which was the move of HQ, TRADOC from Fort Monroe, VA, to nearby Fort Eustis, VA, pursuant to the 2005 BRAC process. After several years of preparation, the Headquar-

ters arrived at its new location, in phases, throughout summer 2011 with minimal interruption in operations.

The conflict in Afghanistan intensified, resulting in *the surge* (late 2009–September 2012). Against that background, GEN Cone faced the task of reorienting training, doctrine, and materiel development from an *Army of Execution* to an *Army of Preparation*. This meant developing doctrine to prepare the Army to fight both conventional and so-called asymmetrical warfare, and prepare adaptive leaders for that type of Army.



Figure 15. GEN Robert W. Cone.

Doctrinal review and change involved the creation of a specific hierarchy, upsetting more than a century of simple Field Manual use. This vision was called Doctrine 2015.⁷ At the top were the Army Doctrinal Publications (ADPs), which provided brief conceptual overviews of general doctrine—that is, *fundamental principles*—and that doctrine was then reinforced in greater detail by the Army Doctrine Reference Publications (ADRP). Even greater detail was found in the new versions of the FMs. ADP 3-0, *Unified Land Operations*, was short and covered military principles that tended to change little over time. Other publications covering the operational and tactical levels of war were intended to be more detailed and subject to more frequent changes. All these publications were becoming Internet based to provide the most rapid and widespread distribution to multiple audiences, including field units.

After almost 35 years of service, GEN Cone retired, and soon passed away after a long illness, aged 59, on 19 September 2016.

GEN David G. Perkins

GEN David G. Perkins was the 15th TRADOC CG, beginning 14 March 2014. GEN Perkins previously served as Commander, Combined Arms Center, Fort Leavenworth, KS, so he arrived already familiar with TRADOC's goals and objectives. GEN Perkins defined TRADOC priorities as follows: Design the Army; Acquire and Build for the Army; and Improve the Army.⁸

Design meant: research, analysis, & integration; statistical and mathematical analysis; and understanding emerging world trends. Major lines

of effort included preparing for the Future Operational Environment; understanding Multi-Domain Battle (MDB); laying the groundwork for the *Big 6+1* capabilities; preparing for Force 2025 and Beyond (F2025B) and the related F2025 Maneuvers; and acquisition reform.

The terms *Acquire and Build* meant: soldier and civilian recruiting efforts; ROTC cadet education; and basic training for enlisted soldiers and officers. This means improving the entire accessions enterprise, with an eye toward the Soldier of 2020.

Improve meant: institutionalizing lessons learned (e.g., Center for Army Lessons Learned, etc.); officer education; research; senior NCO education; and enlisted and NCO career paths/models. All these efforts were reinforced and supported through the Army University as an overarching model. This meant adapting the institutional army; updating or creating new doctrine; initiating better talent management; and having good career maps for NCO 2020. GEN Perkins was also responsible for a conceptual revisit of the Army Capstone Concept, TRADOC Pam 525-3-1, *The US Army Operating Concept: Win in a Complex World* (w/Change 1), dated 31 October 2014.⁹ It is with that concept as a bedrock that the rest of the Army Functional Concepts, ADPs, ADRPs, and FMs were aligned.

In October 2017, TRADOC's Combined Arms Doctrine Directorate (CADD), Fort Leavenworth, KS, released the new FM 3-0, *Operations*, which provided doctrine on how the Army—as a component of the joint team—conducts sustained, large-scale operations against a regional peer, within the constraints of current force structure and capability. This iteration of the venerable FM aligned roles (shaping the operational environment, conflict prevention, large scale combat, consolidating gains, etc.) with the range of military operations (ROMO). Doctrine was thus connected to the developing MDB concept. He was also responsible for establishing the first Multi-Domain Task Force (MDTF) in 2017, with an Indo-Pacific focus.¹⁰

GEN Stephen J. Townsend

GEN Stephen J. Townsend became the 16th TRADOC CG on 2 March 2018, after serving as commander, XVIII Airborne Corps and Fort



Figure 16. GEN David G. Perkins.

Bragg, NC. One of his first tasks from SECDEF Esper was to accelerate and operationalize Multi-Domain Battle (MDB), and put it into doctrine at all levels. He also changed the name from MDB to Multi-Domain Operations (MDO). MDO became very “offense” oriented because, as he said, “you don’t win a war by defending.”¹¹ TRADOC (through ownership of both US Army Cadet Command and US Army Recruiting Command (USAREC) was also not meeting quota; that became a major line of effort (LOE). One of the solutions was to fully provide the personnel authorized but not actually allotted by manpower to the recruiting mission. He also believed in Mission Command, and empowering subordinates. He reinvigorated the use and practice of Mission Command within TRADOC. His feedback to the CSA, SECARMY, and HQDA—that there was no one person who could discuss the status of Force Modernization—was one element in the creation of Army Futures Command (AFC). He continued to push for a new physical fitness test, now known as the Army Combat Fitness Test (ACFT), which was deliberately designed to test fitness while reducing physical injuries. He pushed for the Army Marketing Engagement Brigade (which has the Golden Knights parachute team, Army Marksmanship Unit, and Mission Support Battalion to assist with recruitment drives) to fall under TRADOC. He drove the simplification of GoArmy.com from 30,000 separate pages to a much more manageable number, striving to find any desired information within three “mouse-clicks.” He also simplified the command guidance by issuing only 10 policy directives instead of 70. HQDA directed the CG, TRADOC, to be the one “belly-button” to push in regard to recruitment—a simplification that was greatly needed. OSUT, BCT, and AIT training times were increased, as well as the rigor required for all. Decisive Action Training Event (DATE)—informed by the TRADOC G2—was used for Field Training Exercises. And he pushed for a reform of the leader-to-led ratio in all areas of training. He evolved the Army Reform Initiative (ARI) to the TRADOC Reform Initiative (TRI), with a vision for *TRADOC 2028*. He would no doubt have accomplished much more, but the Army selected him to instead lead US Army Africa Command (AFRICOM), where he assumed command on 26 July 2019.



Figure 17. GEN Stephen J. Townsend.

GEN Paul E. Funk II

GEN Paul E. Funk II was the 17th TRADOC CG, beginning 21 June 2019. During his tenure, TRADOC assumed responsibility for many projects and efforts previously led or directed by HQDA. This work included: helping implement the establishment of Army Futures Command (AFC) and working out specifics for spaces and faces; implementing the Battalion Commander Assessment Program (BCAP); reforming Initial Entry Training (IET); implementing the Army Combat Fitness Test (ACFT) to replace the 40-year old Army Physical Fitness Test (APFT); implementing the Army People Strategy; and the disestablishment of Direct Reporting Units (DRUs) Asymmetric Warfare Group (AWG) and Rapid Equipping Force (REF). TRADOC also gained the Soldier for Life program and proponency for DA Public Affairs. He also led TRADOC through the COVID-19 crisis, declaring early on that the command was “at war” against the virus. Training never stopped; there was only a two-week pause in throughput while determining the correct protocols given the layers of competing guidance from the World Health Organization (WHO) and Centers for Disease Control and Prevention (CDC) through the Office of the Secretary of Defense (SECDEF) on down. Part of the coping mechanism for COVID-19 included distance learning and blended learning, using the Synthetic Training Environment (STE), which also had the benefit of reducing training costs. TRADOC implemented Army Hiring Days to aid recruiting. Recruiting was a challenge throughout his tenure. FM 3-0, *Operations*, dated 1 October 2022, incorporated observations, insights, and lessons learned (OILL) from the Russia-Ukraine conflict. Fort Lee was the TRADOC lead for OPN ALLIES WELCOME/OPN ALLIES REFUGE, following the US withdrawal from Afghanistan. Reducing attrition in training was aided by the new TRADOC Organic Medical Support (TOMS) strategy. The Captains Career Course was updated for the first time in 40 years. A new SES 3-star equivalent position was added to the HQ TRADOC staff. GEN Funk was also responsible for establishing the second Multi-Domain Task Force (MDTF), based in Europe.¹²



Figure 18. GEN Paul E. Funk II.

GEN Gary Brito

GEN Gary Brito assumed duties as the 18th TRADOC commanding general on 8 September 2022. He was responsible for building and sustaining the Army's foundation by training the most lethal soldiers and developing the most professional leaders as well as providing the connective tissue that guides Army culture and shapes the future force. Upon assuming command, GEN Brito was tasked by GEN McConville to address the Army's recruiting crisis, improve the accessions enterprise, and maintain TRADOC's focus on training and leader development. He emphasized assessing and fixing recruitment systems, modernizing the Recruiting College, and expanding the Future Soldier Prep Course, which grew from fewer than 1,000 participants to more than 42,000.



Figure 19. GEN Gary Brito.

GEN Brito's leadership style was presence-driven—focusing on clear guidance, trust in subordinates, and adaptability. He exemplified this by prioritizing frequent visits to all the Centers of Excellence to validate missions and provide support. In an oral history interview, GEN Brito noted that he could “go to a rifle range and see, in five minutes, this is going well or it's not. By going to the Centers, I can see, we're doing the right thing, we're training the right way.”

GEN Brito prioritized the development of ethical, competent, and cohesive leaders and soldiers. His initiatives included updating professional military education (PME), reinforcing foundational skills, and fostering a culture of trust and professionalism.

GEN Brito emphasized the importance of Foundational Skills training to address harmful behaviors and build cohesive teams. This training complemented warfighting skills and extended into junior leader development, ensuring a continuum of learning from Basic Training to unit assignments. As CG, he saw TRADOC's role to “deliver that first layer of bricks” in a well-developed soldier to the organizational army. As CG TRADOC, GEN Brito ensured that “The readiness for the United States Army starts here.”

The Command Sergeants Major¹³

CSM John F. LaVoie, July 1973–May 1977

CSM John F. LaVoie was a highly decorated soldier and WWII, Korea, and Vietnam veteran as well as a pioneer for TRADOC.¹⁴ His initial efforts included establishing and upholding training standards, and the initial permanent establishment of formal NCOES.¹⁵ Another challenge to the army and its training base was that there was no longer an endless manpower supply, because the Army became all-volunteer when the draft ended. The Vietnam War concluded, and the social strife of that war created deep divisions within America. Separately from all the above, the 1973 Yom Kippur War occurred, proving that it was indeed possible to fight and win while outnumbered. Lessons learned from that conflict continue to resonate.¹⁶



Figure 20. CSM John F. LaVoie.

CSM Haywood F. Wren, June 1977–August 1980

In addition to continuing the lines of effort established by CSM LaVoie, CSM Haywood F. Wren was involved in supporting the *Army of Excellence* efforts. This included getting the right enlisted personnel involved with the High Technology Test Bed, as well as the Modified Table of Organization and Equipment (MTO&E) builds for the *Army of Excellence*. Supporting the CG, he was also instrumental as regards enlisted support to all the lines of effort for the TRADOC Systems Managers (TSMs) —which later became TRADOC Capability Managers (TCMs). [Note: With the creation of AFC, the TCMs became the Army Capability Managers, or ACMs.].



Figure 21. CSM Haywood F. Wren.

*CSM James B. Craft,
August 1980–August 1983*¹⁷

CSM James “Jim” B. Craft continued the lines of effort established by his predecessors, to include finishing out the Army of Excellence effort. In support of the CG, he also assisted with combined training and gender integration efforts. As fielding of the *Big 5* systems was conducted, he was also responsible for coordinating with other CSMs throughout the Army regarding standards of training for the new equipment.



Figure 22. CSM James B. Craft.

CSM William J.H. Peters, August 1983–August 1987

Serving under TRADOC CGs GEN Richardson and GEN Vuono, doctrine formulation and collective training were key focus areas for CSM William J.H. Peters’ efforts. This collective training focus included the newly established Battle Command Training Program. The new paradigm of DOTLMS likewise needed reinforcement among the NCO ranks. NCOES was revamped with his encouragement. Promotion was linked to successful completion of schools, including what was then called Primary Leadership Development Course (PLDC) for Specialists (SPC) in promotable status, newly promoted Sergeants (E5), etc. The Army moved from Active Defense to AirLand Battle, and the doctrine for the latter was promulgated through all ranks and related training.



Figure 23. CSM William J.H. Peters.

CSM Peters entered the Army in 1955, when soldiers reported to their units for training. Having lived through the lack of a formalized training program, and having served two tours in Vietnam, he strongly believed in the TRADOC mission, in training standards, and meeting the standards. In

his oral history interview, when asked what his priorities were, he responded: “My first priority was NCO training. My second priority was soldier training. . . . If you’re responsible for training and you send a soldier in harm’s way—and he gets killed because you didn’t train him to standard—you should stand trial for murder. What we do is a serious business.”¹⁸

CSM Henry J. Goodwin, October 1987–April 1991

Serving under TRADOC CGs GEN Thurman and GEN Foss, CSM Henry J. Goodwin’s tenure was highlighted by the fall of the Berlin Wall, OPERATION (OPN) DESERT SHIELD, and OPN DESERT STORM.

The turbulence of force restructuring, new models of experimentation, revisions of the core manual FM 100-5, *Operations*, and related matters all affected personnel, morale, and retention. These were some of the challenges he faced in support of the CG TRADOC.



Figure 24. CSM Henry J. Goodwin.

CSM W.E. Woodall, May 1991–June 1994

OPN ABLE SENTRY in Macedonia, under UN auspices, began during CSM W.E. Woodall’s tenure. This mission continued until 1999, when it came under NATO control and was renamed Task Force Sabre. That mission continued until 2001, when it was relocated from Macedonia to Kosovo.¹⁹ This was the modern beginning of American interest in Stability Operations in doctrine.

His tenure was also marked by the greatest drawdown since TRADOC was founded, at the end of OPN DESERT STORM, as well as the transition of post-Cold War reformulation of doctrine and training.



Figure 25. CSM W.E. Woodall.

CSM Gilbert F. Paez, July 1994–July 1996

CSM Gilbert F. Paez primarily supported TRADOC CG GEN Hartzog. This was also a period of significant force downsizing to levels not seen since the pre-World War II era. Also, the Army was increasingly involved in peace operations, nation-building, and humanitarian relief, most notably in the Balkans (Bosnia-Herzegovina), with Task Force Eagle and the peace Implementation Force (IFOR), followed by the multi-year Stabilization Force (SFOR). The SFOR mission finally ended in 2004.

In 1994, the digitized Experimental Force (EXFOR) stood up at Fort Hood, TX. This helped shape future forces via the Advanced Warfighting Experiments (AWE) from 1994 through March 1998.



Figure 26. CSM Gilbert F. Paez.

CSM James C. McKinney, August 1996–September 1998

When contacted for comment regarding challenges and accomplishments, CSM James C. McKinney modestly provided the following: “I supported my Commander; and their accomplishments were supported by me as the TRADOC CSM.”²⁰

During his tenure, OPNABLE SENTRY in Macedonia continued under UN auspices. SFOR replaced IFOR in Bosnia-Herzegovina.



Figure 27. CSM James C. McKinney.

CSM John J. Beck, October 1998–October 2001

CSM John J. Beck served under Abrams. In October 1998, Army Basic Combat Training was expanded from 8 weeks to 9 weeks to accommodate additional training resulting from the Drill Sergeant sexual assault scandal at Aberdeen Proving Ground, MD. Two initiatives of note during his tenure were the Army After Next and Force XXI. The Advanced Warfighting Experiment(s) also continued. TRADOC Pam 525-5, *Force XXI Operations*, was promulgated. The Brigade Coordination Cell (BCC) was established at Fort Lewis, WA, in support of FCS/Transformation. The Army adopted the Stryker combat vehicle for the IBCT, with the first two IBCTs being at Fort Lewis. During his tenure, the Institute for NCO Professional Development (INCOPD) was also established.



Figure 28. CSM John J. Beck.

CSM Anthony J. Williams, October 2001–February 2005²¹

CSM Anthony J. Williams joined the Army in 1972. His overseas tours included Korea, Germany, Turkey, and Hawaii. He was a graduate of the Field Artillery Advanced Course, the First Sergeants Course, the Sergeants Majors Course (Class 35), and the CSM Course. He served at all levels from Private to CSM, including serving as CSM for the 25th Infantry Division Artillery (DIVARTY), CSM of III Corps Artillery, CSM of the Field Artillery School and Fort Sill, CSM of the US Army Sergeants Majors Academy, and CSM of TRADOC. His awards and decorations include the Defense Service Medal, Legion of Merit (2d OLC), the Meritorious Service Medal (5th OLC), the Army Commendation Medal, the Army Achievement Medal (2d OLC), the Parachutist Badge, the Air Assault Badge, and the



Figure 29. CSM Anthony J. Williams.

Drill Sergeant Badge. He received the Ancient and Honorable Orders of St. Barbara, the Order of Saint Maurice, and the Ancient Order of Saint Christopher. He is a Lifetime Member of the prestigious Sergeant Morales Club and Sergeant Audie Murphy Club. CSM Williams is the recipient of the Field Artillery Tattoo, and was inducted into the US Army Sergeants Major Academy's Hall of Honor in 2012.

During his tenure, OPN ENDURING FREEDOM in Afghanistan and OPN IRAQI FREEDOM were both initiated.

CSM John D. Sparks, February 2005–February 2008

CSM John D. Sparks primarily served under TRADOC CG GEN Wallace. Like his predecessor, CSM Sparks was a wartime NCO leader and trainer. He reinforced GEN Wallace's view that TRADOC was the *architect of the Army* to shape both today's Army and the future combat force. TRADOC's missions were to recruit, train, and educate the Army's soldiers; develop its leaders; support training in units; develop doctrine; establish standards; and build the future Army. The Contemporary Operating Environment (COE) model influenced all the above. Basic and advanced enlisted training were adjusted to



Figure 30. CSM John D. Sparks.

reflect real wartime challenges. Because much of the military operations occurred in cities in Iraq, Military Operations in Urban Terrain (MOUT) became part of training as did training in dealing with different cultures. Stability operations became the key to success, and doctrine needed to reflect this. During his tenure, the first Surge in Iraq occurred. PLDC was renamed the Warrior Leader Course, and the Basic NCO Course (BNCOC) common core training became distance learning, BNCOC was renamed Advanced Leader Course, and the Advanced NCO Course (ANCOC) was renamed the Senior Leader Course. He initiated concepts such as Warrior University, College of the American Soldier, and expanded education opportunities for Soldiers and NCOs.²²

CSM David M. Bruner, March 2008–September 2011

CSM David M. Bruner primarily supported TRADOC CG GEN Dempsey. This included efforts to streamline conceptual and doctrinal processes, and developing adaptive NCO leaders. During his tenure, Undersecretary of Defense for Acquisition Ashton Carter cancelled the \$160 billion FCS project.²³ This resulted in a massive effort to rewrite concepts and doctrine, and to revise training accordingly, all while continuing to fight in Afghanistan and Iraq.

In 2009, a series of new concepts, ranging from the overarching Army Operating Concept (AOC) to a suite of functional concepts, were promulgated by Joint and Army Concepts Division, ARCIC, TRADOC. Together, these also resulted in a major requirement to revise doctrine and training throughout TRADOC CoEs.



Figure 31. CSM David M. Bruner.

CSM Daniel A. Dailey, November 2011–February 2015

The following are excerpts from CSM Daniel A. Dailey’s oral history exit interview summarizing his tenure: Some of his challenges included completing the *NCO 2020* study, and assisting with the establishment of The Army University. “Take all those lines of effort, and improve them. It is not enough to ‘just be a picture on the chain of command wall because that doesn’t do it for soldiers.’” Also, “It is necessary to take a historic view on why we are here and how we got here. In 1776, NCOs had four tasks, as written by Baron von Steuben. Today there are 56,000 tasks for NCOs. As NCOs, we have changed over time. We as NCOs need to continue to change and improve because our adversaries are also learning and improving daily.”²⁴



Figure 32. CSM Daniel A. Dailey.

CSM Dailey was the first TRADOC CSM to become the Sergeant Major of the Army.

CSM David S. Davenport, February 2015–July 2018

In his oral-history interviews, CSM Davenport said his initial efforts were to see what TRADOC was doing, and determine how to gain process efficiencies. “One improves innovation through communication,” which is why he initiated an unprecedented outreach effort. Another focus area was leader development. He visited all the CoEs, and analyzed *NCO 2020*, the DA Inspector General reports, and all of TRADOC’s own surveys and studies. Through it all, he saw three lines of effort for his office: (1) Developing future NCOs, (2) Managing future NCOs, and (3) Reinforcing NCO Corps professionalism.



Figure 33. CSM David S. Davenport.

“With the CSA’s backing, we implemented STEP (Select, Train, Educate, Promote), which became policy on 1 January 2016.” *The NCO Journal* moved from the Sergeants Major Academy, Fort Bliss, TX, to Army University Press, Fort Leavenworth, KS. The Institute for NCO Professional Development (INCOPD) was reduced in size and moved under Leader Development Directorate, TRADOC G-3/5/7. CSM Davenport communicated via live-streaming Town Halls, and the TRADOC web homepage. During his tenure TRADOC made better use of One Army School System (OASS) via a tool called Institutional Training-Common Operational Picture (IT-COP). And TRADOC continued work with Army University to recognize training for its soldiers.²⁵

CSM Timothy A. Guden, February 2018–September 2020

CSM Guden’s tenure saw the finalization of the NCO 2020 strategy and its full implementation. He also continued work on the Army Combat Fitness Test (ACFT), which replaced the Army Physical Fitness Test (APFT). But mostly, his tenure was characterized by the COVID-19 pandemic and the government / Federal agency responses to the pandemic. Effective response required coordination between TRADOC HQ, CIMT, the various Army Training Centers (ATCs), the Military Entrance Processing Stations (MEPS), US Army Recruiting Command (USAREC), and US Army Cadet Command (USACC). Eventually protocols were established to safely transfer recruits from MEPS to one of the ATCs, where

they would be in quarantine for two weeks (which was the period deemed necessary to see if symptoms developed). During this period, the recruits would accomplish much of their classroom instruction (e.g., law of land warfare), continue to do physical training on their own, complete remaining paperwork, and otherwise make productive use of their time. At the end of these two weeks (later called “Yellow Phase”), recruits who had no symptoms would begin their BCT or OSUT training into Red, White, and Blue phases. Other than taking a two-week pause to sort out the protocols, TRADOC never stopped training. Those policies and procedures were adopted by



Figure 34. CSM Timothy A. Guden.

other services and even other elements, such as the National Football League, National Basketball Association, etc. Recruiting began to move into the digital space via the Accessions Information Environment (AIE). One goal was to take the training to the soldier, not the soldier to the training, and he thought Distance Learning could help with that, and also reduce costs. The pandemic exacerbated the recruiting crisis. Another problem was the lack of filled Recruiter positions, which he helped solve for the first time in 10 years. He assisted with the delineation of personnel slots for AFC vs. TRADOC, and the multitude of related efforts.

CSM Daniel T. Hendrex, September 2020–September 2023

CSM Hendrex’s tenure was marked with unprecedented challenges, beginning with the Fort Hood Independent Review (FHIR), initiated after the murder of SPC Vanessa Guillén in April 2020. CSM Hendrex was instrumental in implementing the recommendations of the Fort Hood Independent Review (FHIR), as well as the People First Task Force, and related efforts. He continued coordination with numerous public health officials at various installations as regards policies due to COVID-19 and various government requirements. The withdrawal from Afghanistan resulted in OPN ALLIES REFUGE, which became OPN ALLIES WELCOME, with Fort Lee in the lead for the Army’s effort at relocating Afghan civilians and their families. He added rigor and oversight to the Drill Sergeant Academy. He worked with the CSMs at the CoEs to get “best practices” promoted across the force, including enhanced strategic communications such as “*Inside the Wire*” and related publications. He also

recommended synergy between the competitions for Expert Soldier Badge (ESB), Expert Infantry Badge (EIB), and Expert Field Medic Badge (EFMB), the combination of which was called the “E3B,” to enable installations to run more iterations of the competition, reducing costs and increasing efficiency. He worked hard to better relations between TRADOC and FORSCOM. One Station Unit Training (OSUT) was expanded to 22 weeks, and he also advocated for more Field Craft training, such as Land Navigation. He also advocated for a return to the Soldier Development Test, to measure proficiency in skills that were not hands-on. He also helped with meeting the recruiting crisis shortfall by fully supporting the innovative Future Soldier Preparatory Course (FSPC), first pioneered at Fort Jackson, SC, so that more soldiers could pass Army standards. Standards did not fall; instead, the FSPC enabled civilians to qualify for service. He advocated for the Army Combat Fitness Test (ACFT) to replace the 40-year-old Army Physical Fitness Test (APFT). He advocated for greater community outreach, such as a summer camp experience, to reconnect America to its Army, and also the expansion of Junior Army ROTC across America.



Figure 35. CSM Daniel T. Hendrex.

CSM Raymond S. Harris, September 2023–September 2025

CSM Harris assumed duties as the final Command Sergeant Major of TRADOC on 29 September 2023. In developing enlisted leaders, CSM Harris emphasized wielding influence over control. He emphasized that as a leader, an NCO might not always have the control desired, but an NCO will always have opportunity to positively influence those they serve with. CSM Harris published essays on the role of the NCO as stewards of the Army profession, highlighting the role of NCOs in strengthening it, and emphasizing their significance in upholding the values, stan-



Figure 36. CSM Raymond S. Harris.

dards, and ethics that define the profession. CSM Harris stated that the importance of NCO stewardship of the Army profession cannot be overstated. As guardians of discipline, mentors and role models, and stewards of Army values, NCOs play a pivotal role in shaping the Army's culture and ethos.

Chapter Three

Force Design and Weapons Development

In modern times, force design had been approached in a methodical manner since at least 1942.²⁶ TRADOC re-designed the *TOE Army*, which meant updating more than 1,200-odd tables of organization and equipment (TOE) for *type* units from platoon through corps and above. This was a continuous process, because organizations changed with new weapons and equipment, based primarily upon changes to concepts and doctrine. Since its establishment in 1973, TRADOC designed and implemented the major division reorganization known as the Army of Excellence (AOE).

Army of Excellence

The TRADOC-designed Army of Excellence (AOE), implemented by DA from 1984 to 1986, was the first major reorganization of the tactical army since the Reorganization Objective, Army Divisions (ROAD) of the early 1960s. The TOE of the AOE supported AirLand Battle doctrine and the generation of weapons introduced in the 1970s and 1980s. The AOE owed much to the Division Restructuring Study (DRS) of 1976 as well as the *Division 86* project and the *Army 86* studies that followed. Both studies were influenced by the lessons of the 1973 Yom Kippur War, and therefore focused on heavy armor and mechanized infantry divisions. DA approved neither study, so GEN Donn A. Starry began anew, since the heavy division was critical to operations in Europe during the Cold War. Studies of *Division 86* (non-mechanized), *Corps 86*, and *Echelons Above Corps 86* were completed in 1980. After crises in Afghanistan and Iran during the same period, *Army 86* planners began studies of rapidly deployable units, because US Army forces also had to be prepared to meet contingencies in the non-NATO world.

In 1980, the CSA, GEN Edward C. Meyer, established a High Technology Test Bed (HTTB) in the 9th Infantry (INF) Division (DIV) at Fort Lewis, WA, to test concepts toward development of a lighter *high technology light division*. TRADOC and the Army Materiel Command (AMC) cooperated with the division's parent commands, I Corps and the Army Forces Command, in this effort. Although valuable ideas emerged from the test bed, no high-technology light division was fielded due to lack of funding. This was a major dilemma. Heavy divisions were needed to meet the mechanized threat posed by the Warsaw Pact, and the Army had a

fixed end strength of 780,000 personnel. The problem ended in June 1983 when CSA GEN John A. Wickham Jr., directed the TRADOC commander, GEN William Richardson, to design a new, strategically deployable light infantry division with a strength of approximately 10,000 personnel that was globally deployable in approximately 500 airlift sorties. To achieve this, GEN Wickham gave GEN Richardson the authority to review and redesign the entire TOE Army. Undertaken by the Combined Arms Center (CAC) with support from the TRADOC branch schools, the AOE effort developed and put in place the force designs of the 1980's Army. All elements of the tactical Army were reexamined. The AOE organizations modified, but did not replace, *Army 86* designs. The notable exception was the new light infantry division, which was a three-brigade organization with a strength of 10,800 men. It was designed to operate in cities, forests, and mountain areas where heavy forces were at a disadvantage, and to buy time for heavy forces that deployed more slowly. The design was certified by the 7th INF DIV (Light) at Fort Ord, CA, and supported by the TRADOC test organizations from 1984 to 1986.

In the AOE, TRADOC force designers reduced the heavy divisions to approximately 17,000 personnel. Significant transfers from division to corps in field artillery, air defense artillery, and combat aviation left the divisions smaller, with less organic combat power. The redesigned corps thus provided a more powerful fighting organization at what was then considered the operational level of war. The AOE design of heavy divisions and corps moved Army tactical organizations more fully into consonance with doctrine. There was criticism that the AOE had overemphasized combat power at the expense of support units, was too light, and lacked tactical mobility, but it met the immediate challenge of deterring the Soviet threat during the Cold War. The AOE also began the development of lighter, more rapidly deployable forces.

Force XXI

The successor to the AOE began on 8 March 1994, when CSA GEN Gordon R. Sullivan directed the start of a major campaign effort to lead to the future Army in the early years of the 21st century. The Force XXI redesign was supposed to be the last of the major operational Army reorganizations of the 20th century. But Force XXI later gave way to the *Transformation* effort directed by CSA GEN Eric K. Shinseki beginning late 1999, due in part to the failure with deploying forces to Kosovo in OPN JOINT GUARDIAN and, in particular, the forces of Task Force Hawk.²⁷

Force XXI was the first force redesign effort in which newly emergent, computer-driven, constructive and virtual simulation methods, equipment, and software were joined to live field simulations to test and analyze military unit designs. *Digitization* was the rubric given this revolutionary emerging capability. In support of Force XXI, TRADOC began several major projects. First, the capstone *how to fight* doctrine was brought up to date in 1993 in FM 100-5, *Operations*. A year later, the command published TRADOC Pam 525-5, *Force XXI Operations: A Concept for the Army of the 21st Century*. Also in 1994, TRADOC accepted a project known as *Joint Venture*, and proceeded to redesign the operational Army on a new information-or-knowledge basis. Concurrently, a modern Louisiana Maneuvers (LAM) task force, begun in 1992, developed scenarios for the Army of the future.

From 1993 to 1995, TRADOC created the means of concept development and testing for Force XXI, a division-sized Experimental Force (EXFOR). Late in 1994, the Army established the 4th INF DIV (Mechanized), at Fort Hood, TX, as a Force XXI test bed. From 1994–1998, TRADOC held Advanced Warfighting Experiments (AWE) and simulations regarding the emerging digitization concept. These exercises and experiments from platoon to theater levels were variously directed by TRADOC’s battle laboratories and CAC’s National Simulation Center.

Transformation

As TRADOC looked forward to the 21st century, the Force XXI operational concept remained unfinished, even at the conceptual level. Then, 12 days into fiscal year 2000, CSA GEN Shinseki, led the Service in a radically different direction. Related to, but different from, his 12 October 1999 announcement, *Army transformation* expanded to mean *responsive, deployable, agile, versatile, lethal, survivable, and sustainable*. Transformation was seen as a sweeping program to enhance the Army’s capabilities and change how it would fight in the post-Cold War world. Combat-ready brigades in the target Army would be deployable anywhere in the world in 96 hours.

The transformed Army would be comprised of three key elements: the *legacy force*, the *interim force*, and the *objective force*. The legacy force centered on the major weapons systems that the Army currently had in its inventory. The interim force would provide crossover capabilities between the legacy force and the objective force during the development

of the latter. The objective force was envisioned as a totally revamped Army as regards equipment, organization, and training. The backbone of the interim force would be six to eight Interim Brigade Combat Teams (IBCT), the first two of which were established at Fort Lewis, WA, beginning in 2000. These experimental units operated under the direction of TRADOC's DCG for Transformation and the Brigade Coordination Cell (BCC), Fort Lewis.

The Future Combat System (FCS) would be the primary weapons and troop-carrying platform for the objective force. The FCS was envisioned as a "system of systems" employing a common vehicle platform. For the IBCT in the interim period, the Army chose a wheeled light armored vehicle known as the Light Armored Vehicle (LAV) III, later renamed Stryker. In July 2001, to help design a force projection Army that was decisive across the spectrum of conflict in the 21st century, TRADOC commander GEN John N. Abrams established Seminar War Games (SWG) at the headquarters. Those fora brought together senior leaders, representing all the Army's functions and responsibilities, to play out scenarios. As part of the reconsideration for reorganization, they created *Units of Action* (UA) and *Units of Employment* (UE) that were different from the familiar "companies," "battalions," "brigades," and "divisions." The intent or vision was that this allowed the (notional) creation of new types of units without slavish ties to previous organizational constructs. Transformation initiatives represented an all-encompassing effort to accomplish the Army's vision and change the way the Army thought, trained, and fought. This effort to fundamentally shift the paradigm failed when the UE was modified to UEx and UEy, indicating Division and Corps, respectively.²⁸ Shortly afterward, the military terminology returned to Brigades, Divisions, and Corps.

Army 2020/Force 2025 and Beyond

As the Iraq War officially ended on 18 December 2011, and the war in Afghanistan wound down, the strategic security environment for the United States remained both complex and unpredictable, and promised to remain so indefinitely. The US continued to be a global military power, but faced a host of complex relationships with both competitors and partners. Global economic conditions forced many nations, including the United States, to make hard fiscal choices. The future operational environment required the Army to prepare its forces for a range of military operations and activities broader than its recent COIN focus. The most significant developments were TRADOC's *Army 2020* efforts. A series of studies and

projects pursued many of those holistic objectives. The overarching goal was to determine how to make the transition from the force of 2013 to the Army of 2020 in an era of fiscal austerity, and still accomplish all that the Army must do as part of the joint force. In July 2014, the effort was redesignated Force 2025 and Beyond (F2025B).²⁹ This goal was designed to better support the full range of joint force commanders' future requirements, creating opportunities to better achieve national objectives.

A new set of challenges arose with an extensive drawdown under the Obama administration, which caused significant concern as regards the ability to keep NATO promises for mutual security. In February 2016, the headline, "If Russia Started a War in the Baltics, NATO Would Lose in 36 Hours," which was predicated on a serious set of wargames in a study conducted by RAND, caused a significant new analytical effort. The impact of the Russian New Generation Warfare (RNGW) study was a contributing factor toward the development of the Multi-Domain Battle (MDB) white paper and concept; and as mentioned earlier, the MDB concept became Multi-Domain Operations (MDO).³⁰

The 2014 Russian invasion of Ukraine's Crimean Peninsula and support to ethnic Russian separatists in Ukraine's eastern regions rekindled long-simmering tensions between the two countries. Concerns that Ukraine was entering NATO's orbit led to the all-out invasion of Ukraine by Russia on 24 February 2022. As an example of large-scale combat operations (LSCO), the war between Russia and Ukraine has been studied closely and delayed the publication of FM 3-0 until lessons from the conflict could be incorporated into doctrine. This likewise had a significant effect on both TRADOC and the US Army.

Weapons and Equipment

From TRADOC's beginning on 1 July 1973, one of its major assigned missions was combat developments—the systematic development of new and improved organization, equipment, weaponry, and doctrine. TRADOC inherited that responsibility when Combat Developments Command was disestablished and the responsibility passed to TRADOC. Merging combat developments with the training mission in one command led to reorienting combat developments to the present and near future, and to applying new and improved doctrine, organization, and materiel solutions to field units quickly. The reorganization decentralized the combat developments mission to the Army's branch and service schools, which also held the training

function. Thus, the centers and schools—focused on their lanes—would develop everything from their level rather than having analysts at DA or elsewhere make those decisions.

The TRADOC combat developments structure had four basic elements: the DCS for Combat Developments at the headquarters, the functional centers (renamed integrating centers in 1976), the schools, and the test and evaluation agencies. TRADOC directed its combat developments responsibilities through the DCS for Combat Developments, which was established as the focal point for assigning projects and allocating and accounting for resources. Until 1990, the three functional centers directly subordinate and reporting to TRADOC headquarters—the Combined Arms Center at Fort Leavenworth, the Logistics Center at Fort Lee, and the Soldier Support Center at Fort Benjamin Harrison—directed, coordinated, and integrated the combat developments work of the Army schools with which each was functionally associated. At the next level were the branch and specialist schools where the commandants had responsibility for both *combat developments* and the *training and education* missions. The fourth aspect of the TRADOC combat developments system was a series of agencies designed to provide data and reports from tests and experiments keyed to specific concepts and projects. Two of the most influential were the Combat Developments Experimentation Command (CDEC) at Fort Ord, CA, and the Modern Army Selected Systems Test Evaluation and Review (MASSTER), an agency at Fort Hood, TX.

The three major combat developments concerns were materiel, organization, and doctrine. Materiel development was a joint effort of TRADOC as the primary combat developer and AMC as the primary materiel developer. TRADOC played three essential parts in the effort. The first was to formulate and document requirements for specific materiel. The second was to monitor AMC development continuously, undertaking operational tests and analyses at critical points. The third role was to redraw organizations and refashion tactics as necessary to accommodate the new item. The combat developer determined a weapon's need and operational specifications, monitored its development, and determined its ultimate issue to and use by the Army in the field.

The Yom Kippur War of 1973 was significant to reinforcing the decision of where to place the combat developments function, which was placed in TRADOC by OPN STEADFAST. Members of TRADOC studied the war intensively, paying particular attention to the tremendous attrition of materiel and unparalleled lethality of modern weaponry. Those lessons

greatly shaped the vision of modern war. Crucial to reform of the tactical force was recognition that modern armies in the 1970s were crossing a technological threshold. The lethality of fire, the tempo of battle, and the immense attrition of the Middle East War had demonstrated a quantum leap in weapons technology.

TRADOC took a total systems approach to weapons development, bringing trainers, logisticians, and personnel managers into the process early. The total systems methodology spawned the concept of the TRADOC System Managers (TSM), formally approved in March 1977. The TSM represented all major weapon and materiel systems in development and functioned with the power and authority comparable to the project managers of AMC. The TSM was charged with integrating and organizing the development process. Introduction of a new Concepts-Based Requirements System (CBRS) in 1980 provided a development schematic, the goal of which was to place fighting concepts at the beginning of all TRADOC's products across the board—doctrine, organization, training, materiel, leadership and education, personnel, facilities, and policy (DOTMLPF-P).

As management techniques and strategies were devised and emplaced, the 1970s and 1980s witnessed the launching of one of the most massive modernization programs in the history of the Army. The *Big Five* systems of greatly increased combat power included the M-1 Abrams main battle tank, the M-2 and M-3 Bradley Fighting Vehicles, the Black Hawk and Apache helicopters, and the Patriot air defense missile. The Multiple Launch Rocket System (MLRS) was also developed and fielded, as were individual equipment and electronic warfare protection devices. Anticipating a smaller force after the Vietnam drawdown, it was imperative to gain and maintain the technological edge in weapons and equipment. The modernization wave that began in the immediate post-Vietnam era crested in 1983. From that point, development was slower and more sporadic. By the late 1980s, modernization planning was less dramatic and aimed more at a coordinated effort, reduced budgets, and available resources. For instance, in 1986, DA commissioned the Armored Family of Vehicles Task Force to examine the next phase of modernization. The emerging concept was that of an armored family of vehicles to be built around two common chassis. A total, phased replacement of the tracked and wheeled fleet would ensure compatibility, commonality, and survivability. Simultaneously, block improvements were projected for the Abrams main battle tank and the Bradley Fighting Vehicle. Upgrades were also planned for the AH-64 Apache.

The success of the total modernization effort was demonstrated in OPN DESERT SHIELD/STORM in 1990 and 1991. All *Big Five* systems deployed and performed beyond expectations. The Apache attack helicopter, the Black Hawk transport and utility helicopter, the Abrams main battle tank, the Bradley Fighting Vehicle, and the Patriot missile system validated the combat developments process and products. The Army Helicopter Improvement Program (AHIP) had resulted in the OH-58D armed Kiowa Warrior, which flew close reconnaissance and attack support for the Apache. Likewise deployed and successful were the Army Tactical Missile System (ATACMS), the longest-range surface-to-surface missile in the Army inventory, along with its companion, the MLRS. Additionally, unmanned aerial vehicles, the Joint Surveillance and Target Acquisition Radar System (JSTARS), and the XM40 series protective mask were success stories of OPN DESERT STORM.

Thus in TRADOC's first two decades of combat developments, the command witnessed a massive modernization program that was justified by a serious security threat. Adequate resourcing and enlightened leadership resulted in the Abrams M-1 Tank and the Bradley Fighting Vehicle, which were still in service more than three decades later. With the collapse of the Soviet Union, the perceived need for weapons designed to fight a major heavily-armed adversary waned. The Army and other services downsized severely, and evolved from a forward-based force to one of force projection. While prior to TRADOC's formation, atomic weapons were the first offset strategy, superior targeting and technology were the second offset strategy against foes that vastly outnumbered US and allied forces.

Asymmetric warfare was the term used to describe the dominant conflict type. Some heavy weapons systems, such as the Crusader 155-mm howitzer and the Comanche helicopter, were canceled; while weapons like the Stryker LAV proliferated. As costs rose and the numbers of weapons declined, technology was harnessed to ensure the new generations of weapons were more accurate and lethal than their predecessors.

With decreased funding levels, equipment requirements shifted to focus on long-term development and acquisition. Weapons systems had to provide broad coverage in low-, mid-, and high-intensity conflicts as well as contingency and special operations. DA proposed four principles to guide modernization decisions: key future modernization programs would be protected, some major weapons systems would be terminated, investment in product improvements and systems modifications would be restricted, and new technologies would be advanced.



Figure 37. M-1 Abrams Tank, one of the “Big Five.” Source: Defense Visual Information Distribution Service, <https://www.dvidshub.net/image/3202000/>.

The concept of battle laboratories located at key centers and schools evolved during late 1991 and early 1992 as TRADOC reassessed requirements for the post-Cold War Army. Without a clear external threat driving requirements, concepts of warfare and the associated equipment needed to be reevaluated. The battle laboratories were designed to be the institutional means to determine, develop, and experiment with equipment and technology, organizational design, and training. The trend in combat developments, with battle laboratories assisting, would be for fewer starts and dollars, higher technology, better integration, and more focus on joint efforts. Modeling and simulation became a prominent element in concept and requirements-validation, and weapons development.

The Army Modernization Plan update, published in May 1994, clarified the US Army’s modernization objectives as: project, sustain, and protect the force; win the information war; conduct precision strikes; and dominate the maneuver battle. As TRADOC reached its 25th anniversary in 1998, it sought to fulfill those objectives. The Modernization Plan and the Force XXI process were designed to move the Service to Army XXI, beginning with a conceptual base and then to post-fielding improvements. Declining defense resources and force downsizing made it necessary for the Army to analyze

future warfighting capabilities with an eye to developing and fielding battlefield systems that best supported the Army envisioned in the next century. As the architect of the future Army, TRADOC continued to fulfill that role. But as the command reached its 30th year in 2003, the road to the Army of the 21st century had taken some sharp turns as the Transformation initiatives looked to a lighter, more deployable force by 2020.

Transformation did not displace all Force XXI tenets. Indeed, it built on many of them. Force projection and sustainment remained priorities. The Army of the 21st century had to be a smaller, CONUS-based force with the required ability to project and sustain its power anywhere in the world. The thinking was that to realize those objectives, Army systems had to be light, lethal, and modular, so more capability could be achieved with fewer resources. The Army also needed to have sufficient strategic and tactical lift assets to move its forces around the globe. The Army had to project forces efficiently by maximizing the advantage of new technologies to move only what was absolutely necessary. Improved logistical information systems and a new emphasis on split-based operations were created and designed to allow the Army to sustain its forces while projecting fewer support elements.

Additionally, new missions were added to the Army, such as humanitarian relief and peacekeeping/peace enforcement, as in Somalia and Bosnia-Herzegovina. Modernization for the Army of the 21st century included denying information to the enemy through secure communications and direct attack against enemy command, control, communications, computers, and intelligence (C4I) assets. Joint efforts to expand their own C4I assets were designed to give US (and some allied) forces a complete picture of the battlefield that could be transmitted to all units. The Army Battle Command System with its many components would link commanders at all echelons. Global Positioning System (GPS) receivers provided precise targeting and navigation data. A new information architecture also included communications systems to securely and rapidly move data from point to point.

A number of weapons and equipment projects underway promised to support the transforming Army deep into the 21st century. Of special importance was a vehicle for the interim force and an FCS that would provide an integrated *system of systems* for the soldier of the future. In February 2002, the LAV III was renamed *Stryker*. On 15 April 2002, the Army accepted early editions of its new *interim* armored vehicle for the IBCTs. The Stryker was a 19-ton eight-wheel armored vehicle that would provide

the Army with 10 different variations from infantry carrier vehicles, to reconnaissance packages, and even to medical evacuation vehicles. The new vehicles had robust armor protection, could travel about 60 mph, possessed common parts and had a self-recovery capability. The Stryker also was designed to be deployed by C-130 aircraft and to be combat-capable on arrival in any contingency area.

The FCS program was a collaborative Defense Advanced Research Projects Agency (DARPA)/US Army joint project to design and demonstrate combat systems that could be the centerpiece of the Army's future objective force. TRADOC's role as the Army's combat developer placed the command at the forefront of defining what was needed and how systems should be integrated. Transformation planners envisioned FCS as a networked force consisting of separate robotic direct fire, indirect fire, and sensor platforms controlled by a manned C2 platform. The FCS was intended to involve both ground and air systems, connected through a sophisticated sensor and communications network.

As mentioned earlier, also under development for the objective force was the RAH-66 Comanche helicopter. More than 20 years in development, the Comanche was expected to operate either as a stealthy reconnaissance system or as a highly lethal attack platform. Concurrently, the Army was testing a Tactical Unmanned Aerial Vehicle (TUAV), known as "Shadow," which was meant to accompany initial-entry ground forces to transmit pictures of a battlefield back to a ground station. Resembling a radio-controlled aircraft, the newest TUAV had a 13-foot wingspan and could stay aloft over a target for 5 to 6 hours. Also being tested were prototypes of a High Mobility Artillery Rocket System (HIMARS), the Army's new light artillery capability. Transportable in a C-130 aircraft, the early-entry artillery platform could launch the entire family of MLRS and ATACMS munitions to a range of 300 kilometers. HIMARS was designed to engage tube and rocket artillery, air defense concentrations, trucks, and light-armored personnel carriers.

The Global War on Terrorism (GWOT)

In addition to developing doctrine and materiel for the future, TRADOC was also concerned with developing the same for the Global War on Terrorism (GWOT), which began after the terrorist attacks by radical Islamists on 11 September 2001. The challenges ranged from the application of conventional doctrine during the initial stages of the invasion of Iraq



Figure 38. Mine-Resistant Ambush Protected (MRAP) vehicle unloading.
Source: Defense Visual Information Distribution Service, <https://www.dvidshub.net/image/3518795/>.

to supporting *asymmetric* operations in both Iraq and Afghanistan. Materiel developments included the fielding of systems very different from the tanks, fighting vehicles, and rocket launchers of the 1980s. Examples included the Enhanced Logistic Off-Road Vehicle (ELSORV), tested in Afghanistan, and the Counter Radio-Controlled IED Electronic Warfare (CREW), a device for jamming the signals that detonate improvised explosive devices (IED).

A successful counter-IED design was found in the Mine-Resistant Ambush Protected (MRAP) vehicle. This was actually a family of vehicles produced by a variety of domestic and international companies that generally incorporated a V-shaped hull and armor plating intended to provide protection against mines and IEDs. The DoD, per joint service requirements, detailed three categories of MRAP. These included Category I vehicles, weighing about seven tons and capable of carrying six passengers; Category II vehicles, weighing about 19 tons and capable of carrying 10

passengers; and Category III vehicles, intended to be used primarily to clear mines and IEDs, weighing about 22.5 tons and capable of carrying up to 12 passengers. By 2003, such vehicles were in use by both the US Army and US Marine Corps (USMC), but only in very limited numbers and for specialized missions, such as Explosive Ordnance Disposal (EOD) and other route-clearance work. These vehicles quickly gained a reputation for providing superior protection for their crews, leading to a suggestion that similar vehicles might be a better alternative for transporting troops in combat than up-armored High-Mobility Multipurpose Wheeled Vehicles (HMMWV). Large-scale production of the MRAP began in 2007, and 28,000 vehicles were produced before the program ended in 2012.

Combat Identification (CID) efforts remained unsuccessful for the land domain. While CID for the Air Domain (air-air) was mostly solved by Identify Friend or Foe (IFF) systems, adopted worldwide, there was no such universal system for the Ground Domain. Likewise, naval systems were able to distinguish friend from foe by a variety of means, so that there were no friendly fire incidents recorded for at least the past two decades prior to the conduct of the USJFCOM-led Joint Cooperative Target Identification-Ground (JCTI-G) Analysis of Alternatives (AoA), which issued its final report on 15 July 2011. Due to extremely prohibitive costs, the Battlefield Target Identification Device (BTID) millimeter wave system was not adopted. Other systems such as Radio-Based Combat Identification (RBCI), microwave interrogation-response, and other technical capabilities were likewise deemed cost-prohibitive due to the scale required for distribution, according to the study plan.³¹

The Tactical Ground Reporting System (TIGR) combined a database of information about the war along with maps, which allowed junior officers to study the terrain in light of past incidents and share information about conditions on the ground. Troops were shown a prototype by DARPA in late 2006, and the current version was introduced in 2007. During this period, unmanned aerial vehicles (UAVs) were under constant development and used for both reconnaissance and attack. However, not all developments were new, as the need for convoy defense saw a renewed interest in similar types of gun trucks used for convoy escort during the Vietnam War.

As the Army reduced its commitments in Iraq and Afghanistan, TRADOC again faced challenges similar to those when it was established in 1973. After a long period of COIN warfare, TRADOC faced an uncertain future in preparing the Army for conflict in the years ahead. In that

regard, the full array of weapons and equipment for *Army 2020* were not developed as planned. Additionally, the responsibility for future materiel solutions shifted to AFC. In 2018, TRADOC Capability Managers (TCMs) became Army Capabilities Managers (ACMs), and fell under the operational control (OPCON) of AFC after November 2020. In October 2021, AFC also assumed Administrative Control (ADCON) of the ACMs.³²

Chapter Four

Concepts and Doctrine

Post-World War II

Despite the emphasis on Doctrine, in reality, concepts precede doctrine—though not necessarily formally and not necessarily in writing. The first use of the atomic bomb in 1945 caused military planners to consider using nuclear weapons on the battlefield. The hard reality was that the Communist Bloc nations could field more men and equipment than the United States and its NATO allies, which meant the US needed to find another way to win besides conventional forces. This led to the creation, in 1954, of the Atomic Field Army concept.³³ That gave eventual rise to the Pentomic Divisions, the fielding of the *Honest John* nuclear-capable rocket launcher, and related doctrine, organization, training, materiel, and leader development. The primary driver to this atomic focus was US President Dwight D. Eisenhower (20 January 1953–20 January 1961), hero of the D-Day invasion of Normandy as a five-star general, later 16th CSA, and first NATO supreme commander. The Eisenhower doctrine was that the United States would be prepared to counter aggression from *any* nation controlled by international communism.

But once the Soviet Union acquired atomic weapons, American nuclear superiority evaporated. The nuclear option was no longer attractive or viable, unless one wished to engage in mutually assured destruction. This was, perhaps, why the United States and its allies did not intervene during the 1956 Hungarian revolution, or during the crushing of the 1968 Prague Spring. Due to the dangers of direct confrontation between the superpowers, the long Cold War was punctuated by a variety of hot proxy wars between the US and the USSR around the world. This included the Korean War and the Vietnam War. Thus, the First Offset Strategy for the question of *how to fight outnumbered, and win*—while not then expressed in those words—was nuclear deterrence.

Advent of TRADOC

In 1973, several important events occurred that included the US withdrawal from Vietnam, the official creation of TRADOC in July, and the October Arab–Israeli War. Vietnam focused the Army’s attention on COIN warfare against an elusive foe. Conversely, the Arab–Israeli War was a conflict unprecedented in tempo, lethality, and consumption of resour-

es. Significant in themselves, these events occurred against a background of concerns over increasing Soviet power across the globe. It was obvious to GEN William E. DePuy, first commanding general of TRADOC, that existing Army doctrine had to be revised. Thus, in 1974, he began the process of change by sending letters to some of the TRADOC school commandants and by initiating a series of conferences to discuss the Middle East War and changes in Soviet doctrine. Not satisfied with the long process of developing new Army doctrine, TRADOC schools developed circulars on *how to fight*. Traditionally, the Combined Arms Center (CAC) at Fort Leavenworth, KS, was the agency assigned to write *capstone* doctrine such as field manuals (FMs), but after several conferences concerning the issue, the task of writing a new FM on operations was transferred from CAC to the Concepts Branch of Headquarters, TRADOC, in 1975. The new FM 100-5, *Operations*, was published in June 1976. The new FM 100-5 principally focused on potential conflict against the Soviets in Europe. It recognized the reality of the modern battlefield, with its increased operational tempo and increased lethality, and emphasized that US forces would have to *fight outnumbered and win*.³⁴ There was also emphasis on winning the first battle. The perception was that the United States seldom won the first battle in any war, as demonstrated by the defeat at Kasserine Pass in World War II and by the *Task Force Smith* disaster in Korea. The overall doctrine right after the Vietnam War was called *Active Defense*. Despite its acknowledgment of a new strategic situation and the enhanced lethality of the modern battlefield, the 1976 edition of FM 100-5 created considerable controversy. Broadly, the criticism centered on three issues. First, the doctrine was defensive in nature and perceived by some to be an all-or-nothing defense without a substantial reserve. Second, the preoccupation with the first battle seemed to be a commitment to fight that battle without consideration of subsequent operations. Third, and perhaps most significant, the *Active Defense* was seen as tied too specifically to one Soviet operational maneuver that called for a massive armored breakthrough that was typical of World War II. Soviet doctrine, however, had also changed and called for multipronged attacks across the front seeking to exploit a weak point.

As published, the 1976 FM 100-5 was a tactical manual with limited focus. While it addressed the Soviet threat to NATO, it did not address US responsibilities in other parts of the world, nor did it address joint operations or counterinsurgency warfare. As a conceptual foundation, it was inadequate, and this meant it was also doctrinally unsound. Therefore, as early as 1976–77, there were efforts underway to redefine the battlefield

of the near future. Then-LTG Starry spearheaded these efforts while he was V Corps commander in Europe. Earlier, as chief of armor, he had contributed greatly to the 1976 edition of FM 100-5 and its *Active Defense* approach. As V Corps commander, however, then-LTG Starry had gained a new appreciation of updated Soviet doctrine and capabilities. In V Corps, the aspects of what LTG Starry referred to as the *Central Battle*, including target acquisition ranges and numbers of combat systems involved, were fully analyzed. He realized that the commander's view of the battlefield had to be wider and deeper than previously indicated by Active Defense. When LTG Starry became TRADOC commander, these considerations became paramount in revising FM 100-5. Nearly simultaneously, the CSA, GEN Edward C. Meyer, recognized a need for the Service to be more responsive to global needs, hence more deployable. There was also the need to revise doctrine to reflect the more current Soviet threat.

A major influence on GEN Starry's concept of the *Central Battle* was a study at the Field Artillery School, Fort Sill, OK, begun at his request. The study suggested interdicting targets deep in the enemy rear to disrupt the Soviet second echelon during an assault. That study also projected cooperation with the US Air Force, which led to the need for an integrated battle across a wider, deeper battlefield. By 1980, the *Central Battle* concept became known as *AirLand Battle*, and a new draft of FM 100-5 began. In addition to the long-recognized principles and fundamentals of war, *AirLand Battle* called for depth, agility, and synchronization, as well as an *insistence* on initiative on the part of leaders at all levels. It was a fundamental conceptual change simultaneous to being a doctrinal change. Published in August 1982, the new FM 100-5 became the cornerstone of US Army doctrine. It was revised in 1986, and *AirLand Battle* remained doctrine through the Gulf War of 1990–91. The 1982 and 1986 editions of FM 100-5 were improvements over the 1976 edition in that they briefly addressed joint operations and contingency operations; however, they remained Eurocentric and did not address COIN warfare. The Second Offset Strategy was precision munitions. And while not expressed in those terms, it is clear with historical hindsight that this was the solution employed to answer the question of *how to fight outnumbered, and win*.

With the apparent demise of the Soviet Union, the strategic position of the United States changed drastically. Although in 1991 US and allied divisions smashed Iraqi military power using the principles *AirLand Battle* doctrine, there arose the notion that a philosophy centered on fighting a major land power on the European continent was no longer relevant. At the end of the Cold War, the United States emerged as a truly global power

with the means to project its influence. Unfortunately, that did not mean peace. In the last decade of the 20th century, nearly half the countries in the world faced some sort of armed conflict, which included ethnic strife, political or religious insurgencies, terrorism from political or transnational entities, or even criminal elements masquerading as political movements. The post-Soviet Union world contained challenges that were far more complex than those evident during the Cold War. The danger of facing a potential adversary in a land war that might turn nuclear seemed to lessen, only to reveal multiple threats to the United States that did not originate in Moscow. TRADOC commander GEN Foss began the full-scale revision of Army doctrine in 1989. The Gulf War, however, delayed further developments, while simultaneously validating AirLand Battle as both concept and doctrine.

On taking command of TRADOC in August 1991, GEN Fred Franks set as his primary goal the revision of FM 100-5 and its publication by early 1993. Perhaps he was motivated by the August 1991 promulgation of TRADOC Pam 525-5, *AirLand Operations: A Concept for the Evolution of AirLand Battle for the Strategic Army of the 1990s and Beyond*. GEN Franks also envisioned Army doctrine moving in a different direction than had his predecessor. Thus, the writing team at Fort Leavenworth, KS, was changed, and the new team worked to produce a manual that was less a tactical treatise than the two preceding versions and more a statement of the Army's position in a world that required deployment from CONUS rather than a forward-based Army. It stressed the numerous missions the Army faced in the current strategic environment and took a realistic view of joint requirements in future operations. GEN Franks was careful to ensure Army-wide consensus prior to publication and that the other US Services were privy to the elements of the new FM 100-5. In this way, it was a public document from its early stages and most of the criticism had been met prior to publication. FM 100-5, released in June 1993, scrapped the designation AirLand Battle. Because Franks did not want to focus attention solely on Army-Air Force cooperation, he did not select a single term to replace AirLand Battle. However, in the introduction to the 1993 FM 100-5, Franks insisted that AirLand Battle had evolved into a variety of choices for a battlefield framework and a wider inter-Service arena that allowed for the increasing incidence of combined operations. On 1 August 1994, TRADOC promulgated TRADOC Pam 525-5, *Force XXI Operations: A Concept for the Evolution of Full-Dimensional Operations for the Strategic Army of the Early Twenty-First Century*, which replaced the earlier TRADOC Pam 525-5 mentioned above.

Post-OPN DESERT SHIELD/DESERT STORM

During OPN DESERT SHIELD/DESERT STORM, the use of satellite technologies led to the idea that space was also a military domain, just like land, sea, and air. On 1 November 1994, TRADOC promulgated TRADOC Pam 525-60, *Space Support to Land Force Operations*. On 20 July 1995, TRADOC released FM 100-8, *Space Support to Army Operations*. On 1 December 1995, TRADOC published TRADOC Pam 525-66, *Operational Capability Requirements*, which listed the various space applications. Besides space, the 1990s also saw the advent of the concept of *Information Operations*, with the eponymous TRADOC Pam 525-59. In August 1996, FM 100-6, *Information Operations*, was promulgated. This concept and doctrinal change also saw the deliberate inclusion of Civil Affairs and Psychological Operations (PSYOPS) (temporarily called Military Information Support Operations, or MISO, before again becoming PSYOPS) into planning. Due at least in part to peacekeeping/peace enforcement efforts in the Balkans (including Task Force Able Sentry in Macedonia, Task Force Eagle in Bosnia, etc.), work began on non-lethal capabilities and concepts of employment as well.³⁵

During his tenure as TRADOC commander, GEN Franks worked closely with CSA GEN Gordon R. Sullivan to change doctrine. In Exercise *Desert Hammer*, new versions of the M1 tank were tested at the National Training Center (NTC) in what would come to be considered the first Advanced Warfighting Experiments (AWE). GEN Franks also looked for a way to test the concept of Army XXI. Use of the battle laboratories to explore the various aspects of the future battlefield also affected concept and doctrine development. Their focus included maneuver, maneuver support, fire support, combat service support, and the new electronics aspects that included computers as well as more traditional electronic equipment on the battlefield. All of these fell loosely under the auspices of GEN Sullivan's concept referred to as the modern Louisiana Maneuvers (LAM), a reference to the Army's famous training maneuvers in 1940 that led to significant reorganization. The modern LAM concept was a process that brainstormed new ideas. Although a DA initiative, the LAM task force was headquartered at Fort Monroe, VA, in part because of GEN Sullivan's heavy reliance on the TRADOC commander, GEN Franks.

For the next decade, the changing international situation demonstrated the need for another update of FM 100-5. The plan for a modified version of the manual tentatively scheduled for 1996, however, was put on

hold. In 1999, CSA GEN Eric K. Shinseki made the case for both doctrinal and materiel changes in the Army, initiatives known collectively as *Transformation*. A large portion of the challenges posed fell on TRADOC as the Army's architect of the future. At the same time, TRADOC was undergoing serious reductions in resources and personnel that affected both training and doctrinal development capabilities.

TRADOC also developed its own scenarios, separate from the Defense Planning Scenarios and related efforts. These were unrelated to acquisition scenarios, and they were instead intended to validate concepts, doctrine, and materiel solutions, such as FCS. In a related effort, by 1999, TRADOC had a Concepts Branch under the Future Training Division, which fell under the DCS-Training. In addition to a formal concepts branch, on 5 April 2000, TRADOC promulgated TR 25-36, *The TRADOC Doctrinal Literature Program*. This document's purpose was to assign responsibility for TRADOC's Doctrinal Literature Program (DLP) to both TRADOC proponents and non-TRADOC proponents that developed doctrine under a memorandum of agreement (MOA) or understanding (MOU) with TRADOC. This was the new mechanism for managing, developing, producing, and disseminating doctrine. It prescribed policy for TRADOC's development of Army, multiservice, and joint doctrine principles and/or tactics, techniques, and procedures (TTP), including management of the Army doctrine development process. Because doctrine development was decentralized across Army agencies, the DLP established standards, ensured consistency, and served to institutionalize the doctrine development and production process. By 2000, the Futures Directorate's LTC Antulio Echevarria II and BG(R) Huba Wass de Czege were publishing articles regarding power projection.³⁶ Other topics included urban warfare, Combat Service Support, Joint Robotics, and Global Engagement.³⁷ Also by 2000, Joint and Army Concepts Directorate (JACD) was established.³⁸

To further the understanding of future warfare as it was then envisioned, GEN Abrams instituted a series of Seminar War Games (SWG) in July 2001 and revitalized the organization and operations (O&O) class of planning documents. The SWG enabled the review process for O&O and simulated long-range planning for an interim and then an objective force. The initial purpose of the SWG was to help design a force projection army that was decisive across the range of military operations on the 21st century battlefield. The SWG particularly addressed the challenges raised by the revolution in computer and graphics technology. The TRADOC Brigade Coordination Cell (BCC) at Fort Lewis, WA, tracked and analyzed two

interim brigade combat teams (IBCT) co-located there, and they tried new concepts for the future battlefield. Their work resulted in a complete revision of the 1993 FM 100-5. To emphasize the break with the past, the joint numbering system of FM 3-0 was adopted for the new manual, which was cognizant of the changes in the nation's geostrategic position. It clearly addressed the problems of deployment and asymmetric warfare and the need for joint operations in nearly every aspect of operations, from major theaters of war to humanitarian relief. The *Transformation* FM 3-0 was published in June 2001.

9/11 and Beyond

After the terrorist attacks of 11 September 2001, TRADOC also had to support the GWOT. The command produced an O&O for the Army on force protection and assessed the impact on the changed world situation on all other aspects of doctrine development. Especially critical was the development of joint doctrine that, in the past, had proceeded slowly and without the desired integration. As the Army became involved in Iraq and Afghanistan in both conventional and COIN warfare, the need for an improved FM 3-0 became evident. The new manual, published in February 2008, was a significant improvement over its predecessor. It addressed the current realities of an unstable world in which the threat was constantly changing. In addition to emphasizing information warfare in conjunction with conventional and counterinsurgency warfare, it gave full weight to stability or civil support operations as part of the spectrum of warfare.

Another important doctrinal publication was the update of FM 3-07, *Stability Operations*, in October 2008, which represented a milestone in Army doctrine. Unlike previous editions, it was designed as a roadmap from conflict to peace. It institutionalized the hard-won lessons of the past while charting a path for the future. The manual focused on achieving unity of effort through a comprehensive approach to stability operations and remained consistent with a broader whole of government approach to those same operations.

Doctrine 2015

Doctrine 2015 was an initiative to provide clear, concise, current, and accessible doctrine to the field. Doctrine is important to the US Army, as it provides a body of knowledge that serves as the foundation for the profession of arms, and for the successful execution of Unified Land Operations (ULO). Doctrine 2015 accelerated the implementation of new

doctrine across the force by providing the US Army with a completely revised structure of manuals. The top level of manuals were ADPs that are only 10 to 15 pages in length. Supporting references, Army Doctrine Reference Publications (ADRP), and FMs increase in length and depth of information. Doctrine 2015 made these references available at the point of need through interactive media such as mobile applications, as well as access via the worldwide web. Additionally, Army Techniques Publications (ATP) offered a *wiki* means of contributing to doctrine development. Doctrine 2015 captured the essential lessons learned from over 17 years of persistent conflict in Southwest Asia. It leveraged a broader range of available collaborative technologies including wiki, interactive media instruction, video books, blogs, and social media. Most importantly, it made doctrine more accessible to soldiers. The first step in Doctrine 2015 was the publication of a series of ADPs. The first one was ADP 3-0, *Unified Land Operations*, which was published in 2011, and replaced the venerable FM 3-0, *Operations*. The final edition of the old-style FM 3-0 was published in 2008. It was the last of the printed doctrinal manuals that had begun as Field Service Regulations in 1905. The purpose of ADP 3-0 was to provide a common operational concept for a future in which Army forces would need to prepare to function across the range of military operations, integrating their actions with joint, interagency, and multinational partners in a larger effort. Not counting appendices, ADP 3-0 was only 14 pages long and available on the Internet.

Multi-Domain Operations (MDO), Large-Scale Combat Operations (LSCO), and the Third Offset Strategy

Multi-Domain Battle (MDB) was part of Army doctrine, codified in FM 3-0, *Operations*, as of 2017. While all concept work rests on (or is a deliberate reaction against) precedent, MDB in its modern form emerged in part from an 8 April 2015 speech given by Deputy Secretary of Defense Robert “Bob” O. Work at the US Army War College. In that speech, he called for an “AirLand Battle 2.0,” a concept that would enable the US military to fight and win after solving the anti-access/area denial problem. In terms of development sequence, the *Capstone Concept for Joint Operations: Joint Force 2020* was promulgated in 2012.³⁹ In 2014, the Army published *The US Army Operating Concept: Win in a Complex World 2020–2040*.⁴⁰ The USMC, as the other land component force, published its *Marine Corps Operating Concept (MOC)* in 2016.⁴¹ These were the primary intellectual forebears of MDB. LTG H.R. McMaster, then direc-



Figure 39. LTG H.R. McMaster, as director, ARCIC, speaking about Multi-Domain Battle (MDB). Source: Army News Service, 17 October 2014.

tor, ARCIC, is generally credited as one of the *heavy lifters* of the MDB concept development, along with GEN David G. Perkins, CG TRADOC. LTG McMaster went on to become the national security advisor for President Donald J. Trump in 2017. GEN Perkins, in addition to his other duties, continued to advocate for MBD, socialize the concept to such organizations as the Association of the US Army (AUSA), and write articles, particularly for *Military Review*.⁴²

American adversaries were not idle while US Forces were engaged in the longest wars in the nation's history in Iraq and Afghanistan; instead, both real and potential adversaries have studied how Americans have waged war. In the case of Russia, their T-90 Main Battle Tank was newer and, with its upgrades, more sophisticated.⁴³ Beyond that was the T-14 *Armata*, which began production in 2016.⁴⁴ To answer the *near-peer* threat described above, TRADOC developed the concept of *Multi-Domain Battle* as part of the Third Offset Strategy.⁴⁵ Because MDB was still an emerging concept, despite being promulgated in FM 3-0, there were several ingre-

dients being added to the mix, with various advocates for specific parts or ideas. This included:

- Extending and improving existing capabilities, focusing on anti-access/area denial capabilities and how to defeat those (e.g., stealth aircraft, undersea warfare, etc.).
- Searching for a new, yet-to-be determined capability.
- Improving synchronized existing capabilities so that platforms (e.g., rocket launchers, aircraft carriers) and sensors in different domains could cross-cue one another. Domains included air, sea, land, space, and cyber, as well as arguments for a “cognitive” domain.
- A deliberately joint investment strategy to include air and missile defense, Short Range Air Defense (SHORAD), and electronic warfare (EW) (as distinct from cyber), plus reinvigorated combined arms training.

An obvious critique was that searching for a strategy, a technology, or set of technologies, is not of itself a *strategy*. TRADOC articulated the various parts of the puzzle that had to be solved, or at least addressed, in multiple articles, videos, etc.⁴⁶ The main battle tank remained at the heart of fire and maneuver. The search for a viable replacement for the M1 Abrams was a driver for another TRADOC effort, the Ground Combat Vehicle (GCV), which was intended to be a replacement for the cancelled Future Combat Systems program. The GCV program began in 2009 but was cancelled in February 2014. Given the time required for the acquisition program to work, the Army of 2025 seemed destined to fight its wars with vehicles designed in the 1970s and fielded in the 1980s, with various upgrades, sometimes referred to as System Enhancement Programs (SEPs).⁴⁷

Some of the concept exploration was ironically dubbed “Back to the Future,” per the movie series, to include the notion of dedicated Army coastal artillery units, as stated by former SECDEF Charles Hagel.⁴⁸ This idea was taken by some to mean a constellation of forward-based missile forces. In short, it was American anti-access/area denial (A2AD).⁴⁹ (In the United States, the Coast Artillery Corps was disestablished in 1950.) Others indicated a need for a deliberate integration of cyber capabilities across all domains, to gain efficiencies, as well as investing in electro-magnetic pulse (EMP) non-nuclear capabilities.⁵⁰ These disparate ideas and theories all hinged on radically different investment decisions. Thus, while in times past, there was already a specific technology available around which to build a concept and a capability, for the second decade of the

21st century, there was an acknowledgement that a new capability was needed, and there was a new concept waiting for a silver bullet (or magazine of silver bullets) to actualize it. GEN Perkins was directly involved with concept development, as well as socializing MDB and explaining it to Army Senior Leaders.

MDB became Multi-Domain Operations (MDO) under GEN Stephen Townsend.⁵¹ The intent was to extend the utility of the MDO framework across the spectrum of conflict, from competition through conflict. Likewise, the conceptual turn away from COIN in GWOT and back toward “traditional” LSCO against near-peer adversaries was also socialized.



Figure 40. GEN Perkins speaking on MDB at LANPAC, 25 May 2016. Source: Photo by SSG Chris McCullough, Defense Visual Information Distribution Service, <https://www.dvidshub.net/image/2616853/>.

Chapter Five

Training and Leader Development

By design, TRADOC's establishment in 1973 began a fundamental change in training. While many changes were evolutionary, they resulted in a revolutionary departure from the Vietnam era. The architects of this revolution were GEN William E. DePuy and his DCS for Training, MG Paul F. Gorman.⁵² The latter was an advocate of performance-oriented training, which meant setting training objectives by carefully determining the actual tasks to be trained. After the objectives were set, the conditions under which the training was to take place were determined and the standards were established—thus, the paradigm still in use today of *task, condition, standard*. MG Gorman and his supporters also brought to training development an appreciation of rapidly advancing technology and an understanding of how it could be applied to training. In 1973, soldiers and officers were trained in accordance with the Army Training Program (ATP), which was in use since World War I. The ATP prescribed the hours devoted to each subject and task. It was based on a conscript Army that had sufficient time to raise, equip, and train a combat force prior to its commitment to combat. With the 1973 beginning of the all-volunteer force, planners could no longer depend on an influx of draftees to meet their manpower needs. Other factors TRADOC had to consider in building a new training system were the post-Vietnam downsizing of the Army and shrinking defense budgets. The Army needed better training that was both more efficient and more cost effective.

The lethality and ranges of the weapons used in the 1973 Arab-Israeli War brought home to GEN DePuy and MG Gorman the tremendous importance of well-trained crews and tactical commanders. They agreed that the Army needed a *train-evaluate-train* program that required soldiers to perform to established standards. The program had to be progressive and sequential so that each level provided a foundation for the next higher one. They also believed that individual training in units was neglected and focused TRADOC's effort there. MG Gorman's idea was to reorient the TRADOC school system so it had a larger *training* intent, rather than an educational one. Finally, both men believed a solid link had to be established between doctrine and training. Thus, the 1976 revision of FM 100-5, *Operations*, recognized the Service schools as the Army's source of combat developments and doctrine.

The Systems Approach to Training (SAT) was the basic vehicle for training change. The SAT model consisted of five interrelated phases: analysis, in-systems training, unit training, individual training, and training support. Due to decreasing budgets, TRADOC's leaders recognized that much individual training would have to be conducted in units. As a result, training developers began to create and field several programs to bring the training to the soldier. The Army Training and Evaluation Program (ARTEP) was a new performance-oriented program for *collective training* that placed responsibility for training directly on the unit. New Skill Qualification Tests (SQTs) were designed to provide an indicator of a soldier's MOS proficiency. The Self-Development Test (SDT), a follow-on program to the SQT, was eliminated in 1995. An updated and revised training and doctrinal literature program included soldiers' manuals that set forth what the Army expected a soldier to know and be able to perform at each skill level. The new program also included commanders' manuals, field manuals, *how to fight* manuals, technical manuals, and training circulars. To meet increasing manpower shortages, GEN DePuy and MG Gorman greatly expanded a training extension course program, begun under Continental Army Command (CONARC), designed to export training to the field.

GEN DePuy and MG Gorman also initiated changes in the Initial Entry Training (IET) program and the Noncommissioned Officer Education System (NCOES). In July 1974, a new basic combat training (BCT) program was implemented that stressed discipline, decentralization to the lowest possible level, and the teaching of basic combat skills. TRADOC also made a major change in the structure of BCT. A new one-station unit training (OSUT) plan integrated some BCT and advanced individual training (AIT) into cohesive programs. That action meant fewer soldiers undergoing IET would have to take the two phases at two different locations, which saved travel costs. TRADOC also established a progressive and sequential NCOES in line with the Officer Education System (OES). GEN DePuy and MG Gorman left TRADOC headquarters in June 1977, but their reforms provided the foundation for a continuing training revolution. Their programs were revised, increased, and in some cases deleted; nevertheless, the changes did not undo their work.

Throughout TRADOC's 52-year history, it employed a number of school models and long-range training plans to fulfill its mission to train the Army's soldiers and officers. *School Model 76*, TRADOC's first, replaced the one operated by CONARC before OPN STEADFAST. It clearly demonstrated GEN DePuy's interest in training as opposed to education,

and MG Gorman's interest in advanced technology. GEN DePuy directed his staff to develop new organizational concepts that would modernize and bring greater efficiency to the schools. *School Model 76* was based on the premise that the commandants were responsible for the interface between combat developments and training developments. The combat developments function of the school created new weapons requirements, tactics, and tactical and support organizations, all based on approved doctrine. Training development personnel were responsible for resident training, extension training, simulation devices and simulators, and training literature to ensure the optimum employment of combat developers' products. GEN DePuy wanted the schools to be less instructor intensive and to take advantage of existing technologies.

By the summer of 1982, inherent problems were evident in *School Model 76*. The most notable problem barred instructors in the academic departments from participating in training developments and combat developments. Almost immediately after the model's adoption, the schools requested exceptions to that policy. A working group established by TRADOC Commander, GEN Otis, recommended the adoption of a new school model that integrated the future direction of the Army with the school model. By abandoning a reactive approach, TRADOC would be in a posture to participate actively in designing the way it operated in the future. The new model combined combat developments and training developments in the same directorate, thereby bringing training developments and evaluation into the system acquisition process earlier. Thus, evaluation could serve to provide information on the potential successes or failures associated with total system fielding. In 1983, TRADOC CG GEN Richardson approved School Model 83, returning much of the responsibility for training developments to the schools' directors of training and the academic departments that they lost in *School Model 76*.

Another initiative affecting TRADOC schools was the 1982 establishment of a military history education program, designed by the new Combat Studies Institute at Fort Leavenworth, KS. TRADOC Regulation 350-13, *Military History Education Program (MHEP)*, first published in January 1982, formally vested proponentcy for MHEP with the TRADOC chief of staff, and established command policy for the study of military history in the TRADOC Service schools and in senior ROTC detachments. The TRADOC MHEP was intended to foster a sense of historical mindedness throughout the Army community, creating sensitivity to the intellectual and functional values of military history as a vital component of professional education and development.

In 1983, proponency for MHEP management shifted to the Combined Arms Center (CAC) commander with executive agency given to the director, Combat Studies Institute (CSI). Also in 1983, a revised TRADOC Regulation (TR) 350-13 placed the requirement for military history instruction with uniformed officers outside the command history program and made no provision for utilizing civilian branch historians in MHEP. However, as the TRADOC history program grew, commandants at the various centers and schools used the branch historians to coordinate MHEP in their commands and serve as adjunct instructors. By 2003, most branch historians served frequently as adjunct instructors of military history. In August 1992, proponency for MHEP returned to TRADOC HQ. In 1999, TR 350-13 encompassed heritage instruction in BCT as well, and was upgraded to reflect visions of a transforming Army. In 2010, MHEP was again revised to broaden heritage instruction for the junior enlisted in TRADOC museums, and indeed to conduct as much military history and heritage instruction as possible in the command's museums.

In conjunction with a continuing assessment of TRADOC school organization, TRADOC Commander GEN Vuono directed the development of a long-range plan to guide the command for the next 10 years; TRADOC published that long range plan in May 1987. TRADOC training planners began writing *Army Training 1997* to support the plan. Specific guidance included the integration of Reserve Component training throughout the document under a *Total Army* concept, rather than leaving the Active and Reserve training venues completely separate. Also, additional emphasis was given to developing joint and combined operations and to the distributed training system. TRADOC published *Army Training 1997* in September 1987. Major changes included in the final version dealt with leader development, future technology strategy, the connection between training developments and combat developments within the Concepts-Based Requirements System (CBRS), combat training centers, embedded training, and small group instruction. The long-range strategy provided for a new training system for warrant officers and a strong emphasis on civilian leadership training. The plan also included the results of an important study undertaken to draft a set of standards to improve training effectiveness and guide the evolution of IET.

In the fall of 1988, TRADOC Commander GEN Thurman called for a reassessment of TRADOC's status and the command's short-term priorities. In a concept termed *Vision 91*, he outlined how the command should fulfill its mission through 1991 regarding doctrine, force design, equipment requirements, leader development, training, and mission support.

Training had to be consistent with doctrine, embedded into the development of new equipment, and made an integral part of force modernization. Institutional, unit, and individual training had to focus on teaching warfighting skills in a tactical field environment to produce soldiers who understood the specific tasks of their jobs and could perform them to established standards. According to *Vision 91*, training plans had to make use of technological advances, especially computer-based teaching and testing, and even the simulation of force-on-force maneuvers.

Concurrently, an *Army Training 21* (not to be confused with Army Training XXI) concept was being developed. That plan laid down the specifics for developing a long-range *umbrella* training strategy for the late 1990s and the first 20 years of the 21st century. It included such training strategies as distributed training, based on the technical requirements of each MOS, civilian vocational and technical training for appropriate MOSs, training in colleges and universities, recruiting by proven ability instead of measured aptitude, and reconfiguring the TRADOC school system to be more responsive to projected training requirements in the year 2020. For several years, suggested solutions to problems were tried, studied, and revised. In the end, the demands first of Army XXI and then of the various transformation efforts changed many of the parameters of the earlier initiatives.

As GEN Thurman looked at how the command could best meet its responsibilities to 1991, TRADOC's training managers were examining *School Model 83* for needed changes. *School Model 89* eliminated the *School Secretary* organizations at TRADOC schools, aligned the threat support office under the assistant commandant, and limited the number of training departments to four. Because of numerous requests for exemptions, which were considered on a case-by-case basis, *School Model 89* was not implemented until 1990.

Meanwhile, it was clear that the Army needed a new capstone training manual to keep pace with evolving training plans and doctrine. TRADOC's new training philosophy was contained in FM 25-100, *Training the Force*, published in 1988 to take its place alongside FM 100-5, *Operations*, and FM 22-100, *Military Leadership*, as part of a trilogy of *train, fight, lead* manuals. But FM 25-100 focused primarily on senior Active and Reserve commanders above battalion level. This created a need for additional guidance to better apply the concepts of FM 25-100 at battalion and company level. Thus in 1990, FM 25-101, *Battle Focused Training*, filled the void for those echelons. In October 2002, the Army distributed FM

7-0, *Training the Force*, as an update to FM 25-100. This was in line with the adoption of the joint numbering system. Likewise in 2003, FM 7-1, *Battle Focused Training*, superseded the 1990 FM 25-101. The new manual was designed to bring training doctrine more in line with the emerging operational environment. Significantly, TRADOC leadership endeavored to take advantage of ever more sophisticated technology that could be applied to training. This was increasingly evident in the transformation efforts of the late 20th and early 21st centuries. During the GEN DePuy/MG Gorman years, several tactical engagement simulation systems were used to support unit field training. One of these was known as Squad Combat Operations Exercise, Simulated (SCOPEs). SCOPEs was designed to eliminate the subjective judgment of umpires, and featured a 6-power telescope mounted on a rifle with numbers affixed to each individual soldier for casualty identification. A similar system for training tank crews called REALTRAIN had a 10-power scope. In the early-to-mid-1970s, TRADOC began developing an even more sophisticated tactical engagement simulator for use in force-on-force field training exercises, the Multiple Integrated Laser Engagement System (MILES). MILES revolutionized collective training in the Army; an upgraded version continued in use as an effective Army field training device well into the second decade of the 21st century. An improved version that is integrated with sensor suites for more detailed analysis, called the Instrumentable MILES (IMILES), was first fielded in 2017.⁵³

From its inception, TRADOC was responsible for the development of dozens of system and non-system training aids and devices. Most were computer-based and designed to allow training when space, safety, cost, or environmental considerations might have prevented it. Simulators and simulations such as the Simulation Network (SIMNET), which joined more than 200 simulators, allowed units to participate in simulated battles without leaving home station. In the early years of the 21st century, SIMNET technology was applied to the development of a family of Combined Arms Tactical Trainers (CATT). A family of simulations (FAMSIM) allowed for training in command and control from platoon level to echelons above corps. GEN DePuy's and MG Gorman's faith in the value of advanced technology applied to training and the imagination and support of their successors placed the Army high among the Services in the field of training technology.

In 1976, MG Gorman began developing a concept for a National Training Center (NTC) where heavy armored and mechanized infantry units could train in force-on-force and live-fire exercises and where data

could be collected to support doctrine development, combat development, and a lessons-learned system. In January 1982, the NTC, Fort Irwin, CA, hosted its first force-on-force maneuvers. NTC was a bilateral TRADOC-FORSCOM project. The major features of the training center were the employment of MILES for casualty assessment and a sophisticated data collection system for exercise control, a TRADOC Operations Group, a superbly trained opposing force (OPFOR), expert exercise observer-controllers, after action reviews of unit performance, and take-home packages designed to aid units in correcting deficiencies while training at home station. NTC's success in training heavy mechanized forces led the Army to establish the Joint Readiness Training Center (JRTC) for the training of light forces at Fort Chaffee, AR.

In early 1987, the CSA approved the concept of the Battle Command Training Program (BCTP) to train Active and Reserve division and corps commanders, their staffs, and major subordinate commanders in warfighting skills. In May 1987, NTC, BCTP, and later JRTC and CMTC, were all brought under the training *umbrella* of the Combat Training Center (CTC). Collectively, the CTC projects focused on integrating all elements of combat power and were designed to provide tough, realistic combined arms and services training per *AirLand Battle* doctrine for units from squad through corps. The CTC provided the Army the capability to train heavy, light, and special operations forces across the spectrum of conflict. In October 1987, the JRTC opened at Fort Chaffee, AR. Like the NTC, it featured a TRADOC Operations Group and an OPFOR. Unlike the NTC, the JRTC was a TRADOC-only endeavor until it moved to a permanent home at Fort Polk, LA, in 1993. At that time, the JRTC also became a TRADOC-FORSCOM effort.

In 1988, the Army planned to establish a Combat Maneuver Training Center (CMTC) at Hohenfels, West Germany, to provide the same realistic combined arms training exercises for troops in Europe as those at the NTC. In the summer of 2002, the NTC became the focus of the US Army's participation in Millennium Challenge, the first major joint experiment ever conducted. The Army conducted exercises with the new Stryker interim armored vehicle to test its deployability, especially when airlifted by a C-130 aircraft. The TRADOC battle labs also conducted experiments in satellite communications, intelligence, C2, and terrain mapping. Lessons learned from Millennium Challenge helped develop a new joint training transformation project known as Joint National Training Capability (JNTC) that focused on the upgrading and certification of training ranges for joint training.

Regarding enlisted (non-NCO) training, the Army's IET program included BCT; AIT, which trained soldiers in their MOSs; and OSUT, which combined BCT and AIT for some career fields. On 1 October 1998, Army BCT was expanded from 8 weeks to 9 weeks so that new soldiers could be immersed in the Army's heritage and its seven core values: loyalty, duty, respect, selfless service, honor, integrity, and personal courage. The directive for the additional week of BCT had come from the CSA in the wake of the occurrences of sexual assault during IET at several Army installations, most notably Aberdeen Proving Ground, MD. The revamped program also included human relations, rape prevention, and financial management. In addition, a 3-day field training exercise (FTX) reinforced training given during BCT. Values-based training—values, heritage, and tradition—would not end when soldiers graduated from BCT, but would continue into AIT to reinforce the instruction given in BCT and keep those principles fresh. In 2003, CSA GEN Peter J. Schoomaker created Task Force *Soldier*. One of its tasks was to examine all forms of Initial Military Training (IMT) to ensure it was preparing soldiers for combat. The results were 32 Warrior Tasks and 12 Battle Drills that made training more relevant. The tasks fell into areas such as shooting, moving, communicating, urban operations, and fighting. The drills included reactions to combat situations and casualty evacuation. The tasks and drills were implemented throughout IET in 2004, and some drills were included in AIT. In 2007, GEN William S. Wallace expanded BCT from 9 to 10 weeks without adding additional tasks, and instead reinforcing what was taught.

The Systems Approach to Training (SAT) received a boost with new publications in 2004, for Evaluation, Testing, and Analysis.⁵⁴ On 1 April 2008, TRADOC's Joint and Army Concepts Division published TRADOC Pamphlet 525-3-7-01, *The US Army Study of the Human Dimension in the Future 2015–2024*. That two-year study was the precursor to *The US Army Concept of the Human Dimension in the Future 2015–2024*; the latter document, published 11 June 2008, was revised and the update published on 21 May 2014. These publications influenced the development of the Army Learning Model, and led specifically to Army Learning Model 2015. The significance here is that *concepts* were not only to precede *doctrine*, but also *training* and *the evaluation of training*.

Gender Integration

From the beginning of the all-volunteer force in 1973 and into the 21st century, there were important developments and much controversy concerning the training of men and women recruits together in BCT. In the ab-

sence of a pool of draftees, women enlistees were necessary to meet manpower requirements. As a result, the numbers and percentages of women in the enlisted ranks increased dramatically from the late 1970s through the beginning of the 21st century. That situation, combined with the efforts of official bodies such as the Defense Advisory Committee on Women in the Services (established in 1951), eventually caused the army to integrate the sexes during BCT. From 1978 to late 1981, men and women were trained together in BCT at company level (for example, a company of three all-male platoons and one all-female platoon). That experiment encountered numerous difficulties, especially with physical training, and was terminated in 1981.

From 1982 to 1994, men and women were trained at separate locations. The Persian Gulf War of 1990–91 changed that arrangement when 41,000 women deployed, some serving on the front lines. As a result, the SECDEF declared that women could fly combat aircraft and serve on combat ships. With the idea of *train as you fight*, the Army once again established a gender-integrated BCT program. This time the training companies were totally integrated. Overall, the new program had fewer problems and opened more specialties to women; however, criticism remained and increased in 1996, after the scandal of widespread sexual harassment and rape during training at Aberdeen Proving Ground and other sites. The integrated training program remained but was the object of numerous studies and investigations by Congress, and by various agencies and organizations.

Occupational Physical Assessment Test (OPAT) and Related Matters

The standard Army Physical Fitness Test (APFT) was deemed inadequate for a specific MOS suitability assessment. The science and study of what to measure and how took a few years and several studies, as well as some careful planning based upon average levels of improvement. Those studies verified that a trainee could average an improvement in running of 15 seconds per week from the beginning of BCT through graduation; push-ups could increase an average of one per week, while sit-ups could improve up to three per week. The physical fitness training concepts by type were predicated on the works of Dr. Tudor Bompa, a Canadian academic and the developer of sports periodization training. He divided fitness into five categories: muscular strength, muscular endurance, explosive power, speed, agility, and cardio endurance. Dr. Bompa's works greatly influenced CIMT training efforts, the OPAT, and even the development of the Combat Readiness Test.⁵⁵

To facilitate gender-neutral training, assessment, assignment, and related functions, TRADOC needed a new tool. Since the gateway into the Army was BCT for enlisted, Warrant Officer Candidate School (WOCS) for warrants, or Officer Candidate School (OCS) or ROTC for traditional branch officers, the lead was the DCG for Initial Military Training (IMT). The idea of a test that measured for each individual MOS was initiated by MG Ross E. Ridge and implemented by MG Anthony C. Funkhouser during their respective tenures as DCG, IMT. Nutrition and other matters were also examined in detail. As a result, there were changes to the dietary offerings in the dining facilities, as well as examining the idea of a *fourth meal*. The idea behind a *fourth meal* was that a typical recruit did not eat anything from dinner at 1700 to 1800 hours the night before all the way until after PT the next morning—a period of more than 12 hours. Thus, before they went to bed, they got a nutrition bar. As of late 2017, this effort was still experimental. Due to the sedentary nature of modern life for the typical recruit, Vitamin D was provided as well as calcium to help with bone growth, especially in chocolate milk, giving rise to the somewhat derogatory term of “*the chocolate milk army*.”

The *Soldier for Life* certificate was also conceived during MG Ridge’s tenure, but enacted under MG Funkhouser. Additionally, the title *soldier* was determined to be earned after completion of BCT, while the Army Service Ribbon continued to be earned upon completing AIT. Another purpose for a more rigorous suitability assessment was cost, specifically the cost of personnel who attrited out of training. By having soldier candidates work up to a specific fitness level before even officially joining the Army, not less than 500 to 600 more personnel per year were projected to successfully complete BCT. The average cost per recruit was estimated between \$50,000 to \$70,000, depending on MOS. By reducing attrition, between \$25 million and \$42 million annually was saved.

Female Rangers and Proof of Gender Integration Success

In 2015, 20 female soldiers qualified for the US Army Ranger course. One opted not to attend before training started; after an initial four-day assessment only eight were left; two ultimately completed the course. On average among male soldiers, only 40% of those who attempted the course actually graduated.⁵⁶ When compared to the earlier blanket policy of prohibiting women from even applying to the course, this success was deemed the fruit of efforts regarding the OPAT, gender integration, and gender-neutral standards. Following the decision to open all Army schools to women in January 2013, there was no request for exception to policy by the Rang-



Figure 41. Basic Training, Fort Benning, GA. Source: Photo by Patrick A. Albright, MCoE/PAO Photographer, Fort Benning, Georgia, 3 March 2017, <https://www.dvidshub.net/image/3275607/>.

er School, so it was also open to females for the first time. As of late 2017, female soldiers had a 10% completion rate—but they did complete it. Also noteworthy was that both female soldiers who first completed the course were US Military Academy graduates.

Leader Development

Leader development has always been an Army concern. TRADOC institutionalized leader development programs on several levels. Since 1973, many studies inquired of the ways and means of Army leader development. In Fall 1987, CSA GEN Carl E. Vuono tasked MG Gordon R. Sullivan to conduct such a study and to build an action plan with specific recommendations concerning changes needed in the Army leader development process. The action plan, submitted in April 1988, envisioned a program that rested on three doctrinal pillars—institutional training, operational assignments, and self-development.

One of GEN DePuy's requirements for an Army integrated training system was that training programs were to be progressive and sequential. He also required that objective standards of performance be set and met at each level. By 2003, both the OES and the NCOES met those criteria. After completing the officer basic and advanced courses, captains were required to attend the Combined Arms and Services Staff School (CAS3) course that trained them to function as staff officers with the Army in the field. Because its curriculum overlapped that of the advanced course, kept soldiers away from their assignments, and increased travel costs, CAS3 was discontinued in 2004. After attending the Command and General Staff Officer Course, majors and lieutenant colonels could be selected to attend the School of Advanced Military Studies (SAMS) for an additional academic year of instruction.

In the first decade of the 21st century, TRADOC considered transforming (a favorite word of the era) the OES structure to train the leaders who would command the objective force of the future. Many initiatives resulted from the Army Training and Leader Development Panel (ATLDP), which revealed perceived weaknesses in the pre-commissioning through majors' training programs. Changes were also designed to address transformation issues, a doubling in the number of deployments, and a smaller Army. Under consideration was a more integrated, three-level Basic Officer Leader Course (BOLC) for lieutenants, a two-part course for captains that included both staff training and company command. Finally, an Intermediate Level Education (ILE) model prescribed both a core curriculum and electives. All courses would be timed to officer assignments. BOLC was first implemented in fiscal year 2006.

NCOES served as the cornerstone of the *train-the-trainer* emphasis that guided TRADOC's approach to its overall training responsibilities. GEN DePuy's and MG Gorman's initial efforts to establish a sequential, progressive educational program for noncommissioned officers (NCOs) evolved over the years in the TRADOC schools. NCOES featured four vertically integrated levels of training: primary, basic, advanced, and senior. Over time, those training levels were deliberately tied to promotions.

Similar to training for NCOs and branch officers was training for warrant officers. The February 1992 Warrant Officer Leader Development Action Plan established a six-level program beginning with the Warrant Officer Candidate Course (WOCC). In 2002, the ATLDP released a study focused on training and leader development requirements for warrant officers as the Army began to transform to what was then called *the objective*

force. The study was part of the largest self-assessment ever done by the Army and affected warrant officer training from the WOCC to the Warrant Officer Advanced Course (WOAC), and brought it more in line with commissioned officer training. In 2004, GEN Kevin P. Byrnes, CG TRADOC, approved development of a single, two-phased Active Component and Reserve Component WOCC that recognized the education, training, and experience of the majority of warrant officer candidates.

Another major initiative of the 1990s was the Future Army Schools Twenty-One (FAST) effort. The mission of a FAST task force was to establish an effective and efficient Total Army School System (TASS) of fully accredited and integrated Active Component/National Guard/Reserve Component schools that provided standard individual training and education for the Total Army. One of the task force's recommendations was the establishment of TRADOC as the sole accrediting authority for the schools, effective in January 1993. The major thrust of FAST was the establishment of a regionally-based Reserve Component school system under the auspices of TRADOC headquarters.

Looking to the Army of the 21st century, TRADOC trainers considered their challenge to be maintaining the essence of the Army's education and training system and the utilization of the best combinations of live, virtual, and constructive simulations and simulators. That strategy was designed to unite the many ongoing training efforts into a clear, coherent vision to produce trained and ready units on into the new century. To achieve the Army's objectives in Force XXI to transform from an Industrial Age Army into a knowledge-and-capabilities-based expeditionary Army, TRADOC needed to concurrently develop the means and methods to train and sustain the force. The TRADOC training community developed Army Training XXI (AT XXI). TRADOC's AT XXI concept incorporated strategic plans for unit training and an integrated plan for the training of battle staff and collective tasks.

In late 1999, the AT XXI concepts were absorbed into a body of initiatives known as *Transformation*. While the new effort built on many of the ongoing AT XXI concepts and projects, some *Transformation* training initiatives were new. TRADOC developed both Senior and Tactical Leadership Courses to address the transition from a Cold War focus to a full-spectrum focus for the new Interim Brigade Combat Team (IBCT) at Fort Lewis, WA. The Senior Course, for key leaders, was built on an *adaptive thinking methodology* and included a constructive simulation exercise. The Senior Course was held at Fort Lee, VA; Fort Huachuca, AZ; Fort

Knox, KY; Fort Benning, GA; and Fort Leavenworth, KS. The Tactical Leaders Course, at Fort Lewis, featured training relative to the IBCT organization and operational concept which was based on the unique differences of how the IBCT would fight.

In 2008, the command's training community remained dedicated to the development of competent soldiers, capable leaders, relevant products, and the shaping of future Army training in units and institutions utilizing information-based technology to support the objective force. It also demonstrated its flexibility by providing specialty training for soldiers deployed in the Global War on Terrorism effort.

Basic Officer Leader Course (BOLC)

BOLC was created to develop leaders who were more competent, confident, and adaptable, as well as more effective at solving problems, making rapid decisions, and leading soldiers across the range of military operations. Thus, each leader was to be ready to train and lead small units in combat immediately upon arrival at his or her first unit of assignment (FUA). BOLC at first was a three-phase training program designed to provide initial military training for junior commissioned and warrant officers in both active and reserve components. BOLC I, II, and III created officers grounded in the core leader competencies (leading, developing, and achieving) and capable of serving the modular force in full-spectrum operations. All three phases were designed to be attended sequentially. BOLC I encompassed all military training conducted by the traditional pre-commissioning sources (US Military Academy, ROTC, OCS, and WOCS), and provided the foundation of common skills, knowledge, and attributes desired of all officers. In February 2007, the Army implemented a four-week Direct Commissioned Officers Course to prepare directly commissioned officers, such as Judge Advocate General and select Army Medical Corps officers, for the rigors of BOLC. BOLC II was a six-week common block of instruction conducted eventually at two TRADOC schools (Infantry School, Fort Benning, GA, and Field Artillery School, Fort Sill, OK). It was an operationally relevant program that produced more capable, confident, mentally agile, and adaptable leaders through an emphasis on field craft, small unit leadership, and the Warrior Ethos. It also developed leaders who shared a common bond with their combined arms peers and were ready to lead small units in tactical environments upon arrival at their first unit of assignment. Chaplains, medical specialists, medical doctors, dentists, and nurses were excluded from attending based on propo-

ment decision. BOLC III ranged from six weeks to 15 weeks and four days and consisted of branch-specific functional training conducted at existing TRADOC branch school locations.

For BOLC II, the Army created a common core, tactical leadership phase of training. The methods of training in BOLC III were modified to make greater use of experiential training models to increase learning and to enhance the quality and effectiveness of training. This approach supported Officer Education System (OES) transformation and the goals of increased readiness, greater relevance to the force, and a more joint and expeditionary Army. The Army continued to identify capability gaps in the context of full spectrum operations and to adjust training curricula to address those gaps. Beginning in fiscal year 2009, newly appointed warrant officers were integrated into BOLC II to provide the training necessary to prepare them to meet the Army's expectations of future warrant officers as leaders and technical experts within their respective fields. During GEN Martin E. Dempsey's tenure as TRADOC Commander, BOLC I became BOLC A, and BOLC II and BOLC III were combined to become BOLC B, all of which amounted to something of a return to the old two-part training scheme of a pre-commissioning phase followed by a basic course.



Figure 42. Fort Rucker Aviation Basic Officer Leadership Course (BOLC), 16 May 2013. Source: US Army photo by SFC Andrew Kosterman, Defense Visual Information Distribution Service, <https://www.dvidshub.net/image/941293/>.

Chapter Six

TRADOC in the Joint Service Arena

From its beginning, TRADOC was a participant in the joint service arena. Through the years, it has cooperated in wartime operations and peacetime planning among US ground, air, and sea services. As the successor to CONARC, TRADOC worked closely with the US Air Force (USAF) Tactical Air Command (TAC) at Langley Air Force Base (AFB), VA. This was a continuation of efforts begun shortly after World War II. When TAC was disestablished in 1992, TRADOC continued its joint work with Headquarters, Air Combat Command (also at Langley AFB), which was responsible for all Air Force combat forces, both tactical and strategic. During the 1970s, cooperation developed steadily so that the 1980s yielded important procedural and doctrinal results. The command's cooperative work with the USMC Combat Development Command, begun in the early 1980s, found points of common interest and agreement. In the post-DESERT STORM period, cooperative ventures also began with US Navy (USN) agencies.

CSA GEN Creighton W. Abrams Jr., and GEN George S. Brown, chief of staff of the Air Force (CSAF), promoted the inter-Service cooperation at the operational level that had developed during the Vietnam War. Post-Vietnam force reductions and the need to concentrate on warfighting in central Europe also played a role. GEN DePuy, at Abrams's request, worked to further Air Force-Army dialogue at his own level. A concurrent TAC initiative helped set up the first meeting of the *TAC-TRADOC dialogue* between GEN DePuy and the TAC commander, GEN Robert J. Dixon, in October 1973.

Early discussions involved joint working groups centered on airspace management, reconnaissance and surveillance, and electronic warfare. Talks centered on procedures to improve joint combat capabilities and implement existing doctrine, rather than creating new doctrine. The 1973 Middle East War encouraged greater cooperation because of increased lethality in the air as well as on the ground. In July 1975, TRADOC and TAC established an Air-Land Forces Application Agency (ALFA) dedicated to managing the working groups and mutual projects. In November 1976, a TAC-TRADOC working group produced a joint manual on airspace management, which provided guidance to develop appropriate air control procedures on battlefields that promised to be more lethal and complex in the

future. TAC-TRADOC projects expanded in the late 1970s to joint tactical training projects, tests, and evaluations, and led to joint doctrine endeavors invaluable to the development of Army doctrine. Joint suppression of enemy air defenses (J-SEAD), another significant project in cooperation with US Readiness Command, resulted in a joint concept published in April 1981 that outlined both Army and Air Force responsibilities. In December 1982, the three headquarters published the *Joint Attack of the Second Echelon (J-SAK)*, which delineated attack procedures by level of command for the identification of an attack on the enemy follow-on echelons. The project lay at the heart of TAC contributions to the deep attack aspect of the Army's AirLand Battle doctrine published in August 1982. The NATO doctrine of battlefield air interdiction incorporated the ALFA work. TAC-TRADOC work resulted in a November 1984 agreement on joint procedures for offensive air support.

Although these joint agreements were useful, they were not doctrine. Close Air Support (CAS) issues were complex, and other Air Force missions competed with the Army for air resources. In addition, theater needs and concerns were paramount in any resource decision, and took precedence over these agreements. The requirement for a better way to ensure cooperation was demonstrated in 1982 during OPN URGENT FURY when US forces prevented a Communist takeover of Grenada. The various branches observed different priorities and inter-Service communications were inadequate.

In April 1983, GEN Charles A. Gabriel, CSAF, and GEN Edward C. Meyer, CSA, signed a memorandum of understanding in which both Services agreed to engage in joint training and exercises based on AirLand Battle doctrine, and to continue other inter-Service efforts. This led to the inauguration of a major force development process by GEN Gabriel and CSA GEN John A. Wickham Jr. (GEN Meyer's successor). That program, *The 31 Initiatives*, was heralded as a means to design and field the best affordable AirLand combat force.

The 31 Initiatives program, which addressed seven basic areas of AirLand combat, included a number of joint projects already underway. Extending to 1988, the program furnished a high-level forum and focus for the solution of difficult inter-Service issues. An initiative on intra-theater airlift led to the 1984 establishment of the Airlift, Concepts, and Requirements Agency (ACRA) at Scott AFB, IL. In January 1986, the two Services established the Army-Air Force Center for Low Intensity Conflict

(CLIC), at Langley AFB, VA. The numbered initiatives included a variety of issues, including air defense, rear area operations, and JSEAD. Some initiatives dealt with special operations forces and search & rescue, while others addressed joint munitions development, combat techniques, and procedures for the combined arms battlefield. Other issues included air interdiction, joint target assessment, close air support (CAS), and the link between air liaison officers and forward air controllers. A final group of original initiatives focused on the acquisition of aircraft to meet joint



Figure 43. GEN Robert W. Cone (center) and LTG David D. Halverson (right) discuss joint observation with Lt. Col. (USAF) Rustan S. Swichtenberg at Fort Sill, OK. Source: Army News Service, <https://api.army.mil/e2/c/images/2011/06/09/200098/size0-full.jpg>.

targeting and reconnaissance needs. Among these, JSTARS figured significantly in the Gulf War. There was also an affirmation of Army primacy for rotary-wing combat support, and USAF primacy for fixed-wing support. An important program element was the uniformed Service chiefs' agreement to a combined budgetary submission package for priority programs and establishment of a Joint Assessments and Initiatives Office to institutionalize the joint force development process. In June 1986, USN representation was added to that office. Ultimately numbering 38, the initiatives were substantially completed by 1987.

In 1984, TRADOC undertook important joint work through the ACRA covering multi-Service employment of the C-17 aircraft and its related activities, which were subjects of cooperative doctrinal and procedural effort between TRADOC, USAF's Military Airlift Command, and the Marine Corps Combat Development Command. By the late 1990s, doctrine was increasingly joint, and Army doctrine manuals reflected that reality. Force projection from CONUS, which constituted the prime deployment trend of the post-Cold War, was innately joint. Such operations were indeed the purview of the regional commanders of joint forces.

TRADOC's work in joint doctrine proceeded along two tracks. The first was the multi-Service doctrinal literature published as field manuals together with one or more of the other Services. The second was publication of multi-Service doctrine. The Goldwater-Nichols Defense Reorganization Act of 1986 assigned to the Chairman of the Joint Chiefs of Staff (CJCS) the responsibility to develop doctrine for joint employment of the Armed Forces. The newly established Operational Plans and Interoperability Directorate (J7) was responsible to the chairman of the JCS for the management of the joint doctrine development process. Along with the regional commanders and the Services, the J7 developed a Joint Doctrine Master Plan. TRADOC was a key player in the Army's contribution to the whole JCS development effort.

In 1988, the JCS issued JCS Pub 1-01, *Joint Publication System, Joint Doctrine and Joint Tactics, Techniques, and Procedures Development Program*. This master regulation specified publications in the major categories of reference; intelligence; operations; logistics; plans; and command, control, and communications (C3) systems. Each had a capstone manual that brought together all joint doctrine approved by the three Services.

TRADOC reviewed Joint Publication (JP) 1, *Joint Warfare of the US Armed Forces*, for the Army, and it was published in November 1990

to aid ongoing operations in the Persian Gulf. This significant manual proceeded from the belief that warfare in the modern era was, in fact, joint warfare. The manual provided the basis for the future joint strategic view in discussions of American military power. For the warfighting level, TRADOC completed JCS Pub 3-0, *Doctrine for Unified and Joint Operations*, a capstone operational manual issued by the Joint Staff in 1990.

Cooperative work by TAC and TRADOC during 1989–90 produced a White Paper titled “Air Attack on the Modern Battlefield.” Approved by the two uniformed Service chiefs, the paper led to a five-part Air Attack Action Plan, which the CSA and CSAF signed to synchronize joint air attack combat planning and procedures. This led to a modernized USAF tactical air control system-Army air-ground system (TACS-AAGS), which was tested and validated in exercises during 1990.

Low-Intensity Conflict (LIC)

Low-Intensity Conflict (LIC) was a doctrinal category of thinking about military engagement short of total war, and consisted of diverse and unconventional military operations. The 1993 edition of FM 100-5, *Operations*, characterized LIC as Operations Other Than War (OOTW). For most of the 1970s and 1980s, LIC defined the realm of operations between low-, high-, and mid-intensity conflict. It received considerable attention by TRADOC doctrine developers from the early 1980s on, because defense policy became increasingly concerned with that type of military operation. Throughout the decade, LIC emerged as a major concern. In July 1985, TRADOC joined the Air Force and other agencies in the major Joint Low-Intensity Conflict Study that was released in 1986. It summarized previous efforts and became a springboard for subsequent Army and joint doctrinal formulation and further work. The study revealed that the definition of LIC was too broad to accurately quantify the problem.

Planners recognized the major categories of insurgency-counterinsurgency (COIN), combating terrorism, peacekeeping operations (PKO), and peacetime contingency operations, as well as a host of subcategories, such as counterdrug efforts and disaster relief. The crucial question was when the use of force was appropriate and under what circumstances. In 1986, the Office of the Joint Chiefs of Staff promulgated an official definition of LIC, recognizing its diversity in general terms. But general definitions were only useful in a limited way for the formulation of such multifaceted doctrine. A bi-Service LIC manual, FM 100-20/AF Pamphlet (Pam) 3-20,

Military Operations in Low-Intensity Conflict, was published in December 1990. The manual opened the way for effort on the JCS equivalent, JCS Pub 3-07, Doctrine for Joint Operations in LIC, which was retitled *Military Operations Short of War*.

Army oversight of the CLIC resided with Headquarters, TRADOC until 1990, when it was transferred to the DA DCS for Operations and Plans (DA G-3). TRADOC, however, retained a close relationship with the CLIC for assistance in LIC concepts, doctrine, and training matters. The 1990 LIC doctrine spelled out critical differences between LIC and other conventional operations in activities such as foreign assistance and also provided an analysis of insurgencies. In the ambiguous environment of LIC, the contribution of military force to achieving the strategic aim was supportive and indirect. Political, economic, and psychological objectives shaped the way such operations were executed. What was important was understanding that military force had to be closely coordinated with other responses. One of the most perplexing issues was joint counterdrug operations. Doctrine, procedures, and training to assist the interdiction of the illegal drug flow into the United States were some of the many challenges and projects in which TRADOC, the joint agencies, and subordinate elements of the command were active. In 1996, the CLIC was inactivated and its missions dispersed. USAF and Army planners believed that since LIC was a predominant form of engagement for US forces since World War II, that trend was likely to continue.

The Rise and Fall of US Joint Forces Command (JFCOM)

The Commander in Chiefs (CINCs) Support Program, dating from August 1991, was a tool by which TRADOC-led teams annually visited the headquarters of the regional CINCs to determine their pressing developmental demands. The program responded comprehensively to the CINCs in all military development areas. In January 1996, the CINC, US Central Command (CENTCOM), requested that TRADOC shift the program's emphasis from specifically Army areas of interest to one more joint in nature. Other unified headquarters concurred. Consequently, TRADOC restructured the program, redesignating it the CINC Joint Warfighting Support Program. On 1 October 1996, the program was transferred to the Joint Warfighting Center at Fort Monroe, VA.

The Mobility Concepts Agency (MCA)—located at Fort Monroe, VA, since 1994—drew together doctrine and other developments for airlift and joint mobility for all the Services, including a C-17 multi-Service employ-

ment concept, a study of (Joint) (forced) early-entry deployability, and a study of joint theater airlift capabilities. Other studies of the period dealt with mobile offshore basing and the deployment sequence of joint reception, staging, onward movement, and integration.

US Atlantic Command (USLANTCOM), originally established in 1947 primarily as a naval command, was a regional command with joint authority. In 1993, it received the new short title USACOM; and in October 1999, was re-designated Joint Forces Command (JFCOM). In addition to its other responsibilities, JFCOM was given the mission of joint training and transformation as outlined in the DoD Unified Command Plan. As the Army's trainer, TRADOC coordinated closely with JFCOM. In 1999, JFCOM absorbed the Joint Warfighting Center mentioned above into its Joint Training Center at Suffolk, VA. In 2002, TRADOC participated in Millennium Challenge, the US military's largest joint peacetime exercise to date, which JFCOM controlled. TRADOC had the Army lead for Millennium Challenge 02, and coordinated with JFCOM to provide management oversight for the overall experiment and achieve both joint and Army objectives. TRADOC was also the lead for Army Transformation Experiment 02 in which the Stryker armored vehicle was tested at the National Training Center (NTC).

The emphasis on joint operations called for a substantial revision of US Army doctrine in the form of FM 100-5, *Operations*. In 2001, in a clear break with the past, the Army manual numbering system was dropped and the joint numbering system was adopted when the manual became FM 3-0. The new manual recognized the changes in the nation's geostrategic position since the end of the Cold War. It clearly addressed the problems of deployment and *asymmetric warfare*, as well as the need for joint cooperation in nearly every aspect of operations, from major theaters of war to humanitarian relief. FM 3-0 was further revised in 2008 and placed even greater emphasis on joint interdependence.

In 2003, TRADOC Commander GEN Kevin P. Byrnes established a special relationship with the JFCOM, because he believed the Army was built to support a joint forces commander. TRADOC should instead operate as the Army's component command with JFCOM. In addition, JFCOM would be a cosponsor of the annual transformation war game to be held at the Army War College in April 2003. That war game was followed by JFCOM's war game Pinnacle Impact and joint exercise Unified Quest (UQ). GEN Byrnes emphasized that TRADOC had to increase the command's

insistence on joint exercises in the future and, in October 2003, established the TRADOC Futures Center, which became the core for development of joint doctrine in TRADOC. In 2006, the Futures Center was redesignated the ARCIC, which continued as the center of joint doctrine development. Five divisions in the Concept Development and Experiment Directorate (CDED) were supposed to address both Army and joint issues. These were: Joint and Army Concepts Division (JACD), Joint and Allied Doctrine Division (JADD), Joint and Army Experimentation Division (JAED), Joint and Army Modeling and Simulation Division (JAMSD), and the Joint Interdependency Coordination Division (JICD).

Unlike previous decades when *joint* meant agreements with other Services on practices and procedures, the new joint environment focuses on multi-Service cooperation from inception. For example, Army FM 3-24,



Figure 44. BG Richard W. Haldenby (left), deputy director of Joint Warfare for the British Armed Forces Command, talks with David G. Paschal, deputy director of HQ TRADOC G-2's Training Brain Operations Center, Newport News, VA. Source: TRADOC Military History Office.

Counterinsurgency, published in 2006, was also USMC Warfighting Publication 3-33.5, *Counterinsurgency*. The joint publications to which TRADOC contributed in 2007 included topics as varied as joint terminology, joint intelligence, joint operations, joint amphibious operations, and space operations and logistics. In the area of materiel development, TRADOC contributed to weapons developments, joint heavy lift, aerial sensors, and improvised explosive device (IED) detectors.

In May 2010, TRADOC participated in the Comprehensive Approach to Building Partnerships (CABP) Stakeholders' Conference in Arlington, VA. Participants included the Office of the Secretary of Defense, JFCOM J9, Joint Staff J5, Combatant Commands (COCOMs), the Department of State, the US Agency for International Development (USAID), the Commerce Department, several non-governmental organizations (NGOs), and other multinational partners. There were two facilitated discussions and two CABP Baseline Assessments. One key gap identified was the lack of situational awareness of interagency capabilities and limitations, and the same regarding interagency priorities and goals within the COCOM areas of responsibility by the COCOM planners and decision makers. The Armed Forces Staff College had changed its curriculum to provide more awareness of interagency matters, and this was brought up during the conference. This lack of awareness of the interagency aspect was a recurring theme also brought out at the 2011 Haiti Lessons Learned Conference by the XVIII Airborne Corps.

TRADOC participated in periodic US Army and USMC Counterinsurgency Center Webcasts that covered a diverse range of topics, including:

- “Utility of Academic Partnerships in Counterinsurgency Training”
- “Radicalization Awareness”
- “Leader-Centric Warfare”
- “Irregular Warfare Update, Afghanistan”
- “Victory Has a Thousand Fathers, Sources of Success in Counterinsurgencies”
- “My Cousin’s Enemy is My Friend: A Study of Pashtun ‘Tribes’ in Afghanistan”

On 4 August 2011, JFCOM, TRADOC’s longstanding partner in the joint field, was disestablished because of growing financial constraints in the defense community. The relationship with JFCOM had been both beneficial and convenient because of JFCOM’s close proximity in Suffolk, VA.

Chapter Seven Organizational Structure

In 1973, TRADOC consisted of a headquarters, 3 major subordinate commands, 16 branch schools, 8 military schools and colleges, 4 specialist schools, and a variety of special activities. Support agreements (intra-Army, inter-Service, and interagency), together with memoranda of understanding internal and external to TRADOC, helped smooth the complex administrative, logistical, and funding relationships. On its activation, TRADOC headquarters commanded, separately, its own installations, certain TRADOC tenants on those installations, and TRADOC tenants on non-TRADOC installations. Initially it directly commanded 20 major installations through the commanders of the centers resident on 18 of the installations and through the post commanders of Fort Monroe and Carlisle Barracks, which were not centers. In 2003, the Installation Management Agency (IMA) (later raised to a command) assumed direction of all Army installations.

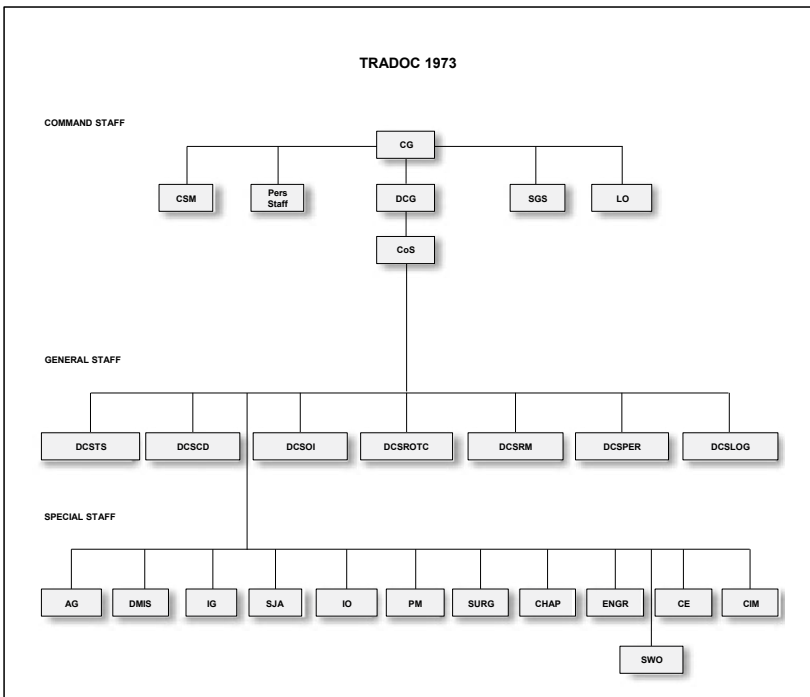


Figure 45. TRADOC Organization, 1973. Created by Army University Press.

TRADOC 1973: Initial Subordinate Organization

Initially organized on OPN STEADFAST principles of centralized management and decentralized operations, TRADOC executed its individual training mission through its Army training centers; service schools; ROTC regions and subordinate detachments; and US Army Reserve schools, training divisions, and brigades under its operational control. The STEADFAST reorganization had divided and assigned the parts of the Army field establishment in the United States not by geography, but by function. In 1973, TRADOC also monitored individual training in Army-operated DoD schools, the Army War College, logistics-related schools operated by the AMC, and other non-TRADOC schools and training centers. The headquarters accomplished its combat developments mission in 1973 through three mid-level functional centers, later designated integrating centers, as well as through the Service schools and other combat developments activities.

The 18 installations with centers were actually of three different types. Three functional centers—the Combined Arms Center and Fort Leavenworth, KS; the Administration Center and Fort Benjamin Harrison, IN; and the Logistics Center at Fort Lee, VA—drew together the training and combat developments tasks in their respective functional areas of combat and combat support, personnel administration, and logistics or combat service support. Two of the three functional center headquarters oversaw separate school and combat developments activities. The Combined Arms Center (CAC) commanded the Command and General Staff College (CGSC), the Combined Arms Combat Developments Activity, and the installation garrison. The Administration Center commanded the Institute of Administration, the Personnel and Administration Combat Developments Activity, and the garrison. The third functional center, the Logistics Center, was initially a combat developments-oriented organization, operating as a tenant on Fort Lee. The naming conventions then were different from what they became over time.

Ten more of the initial 18 TRADOC center-type installations were Army branch or specialist school centers: the Engineer Center and Fort Belvoir, VA; the Infantry Center and Fort Benning, GA; the Air Defense Center and Fort Bliss, TX; the Transportation Center and Fort Eustis, VA; the Signal Center and Fort Gordon, GA; the Armor Center and Fort Knox, KY; the Quartermaster Center and Fort Lee, VA; the Aviation Center and Fort Rucker, AL; the Field Artillery Center and Fort Sill, OK; and the Primary Helicopter Center and School and Fort Wolters, TX.

The six remaining TRADOC center installations were training centers devoted primarily to BCT and AIT or, at Fort McClellan, AL, to Women's Army Corps basic training. These were the Training Center and Fort Dix, NJ; the Training Center and Fort Jackson, SC; the Training Center and Fort Ord, CA; the Training Center, Engineer and Fort Leonard Wood, MO; the School/Training Center and Fort McClellan, AL; and the Training Center, Infantry and Fort Polk, LA. The commander of the Armor Center and Fort Knox also administered Basic Combat Training.

Eight schools—the Air Defense, Armor, Engineer, Field Artillery, Infantry, Quartermaster, Southeast Signal, and Transportation Schools—were components of their respective branch centers, at which they were located. Three other branch schools were situated on TRADOC installations. The Institute of Administration was subordinate to the Administration Center and Fort Benjamin Harrison, and commanded the resident Army Finance School and Army Adjutant General School; the Women's Army Corps Center and School was subordinate to the School/Training Center and Fort McClellan; and the Military Police School was subordinate to the Signal Center and Fort Gordon. The five remaining TRADOC branch schools were tenants on non-TRADOC posts—the Chaplain Center and School at Fort Hamilton, NY; the Intelligence Center and School at Fort Huachuca, AZ; the Missile and Munitions Center and School at Redstone Arsenal, AL; the Ordnance Center and School at Aberdeen Proving Ground, MD; and the Signal School at Fort Monmouth, NJ.

In addition to the 16 branch schools, TRADOC commanded four specialist schools in 1973: the Aviation School, part of the Aviation Center and Fort Rucker; the Primary Helicopter School and Fort Wolters, TX; the US Army Element, School of Music, Norfolk, VA; and the US Army Institute for Military Assistance at Fort Bragg, NC. TRADOC also commanded, through the installations involved, the Command and General Staff College at Fort Leavenworth, KS, and the US Army Sergeants Major Academy at Fort Bliss, TX. DoD schools operated by TRADOC were the Defense Information School at Fort Benjamin Harrison, IN, and the Defense Language Institute at the Presidio of Monterey, CA. Initially, TRADOC administered the Army ROTC program through four ROTC regions established under the STEADFAST reorganization.

Headquarters Organization and Major Reorganizations

What follows is a very brief synopsis of some of the major reorganizations; it is not exhaustive of all minor changes within the headquarters.

Command of TRADOC resided with the commanding general, assisted at his headquarters at Fort Monroe, VA, initially by a single deputy commander, a chief of staff, a general staff, and special staff. The general staff consisted of seven DCSs who managed the major elements of the headquarters and exercised staff responsibility for the commanding general to the installations, centers, schools, and other subordinate elements. The seven DCSs established in Headquarters, TRADOC in 1973 were responsible for Training and Schools, ROTC, Combat Developments, Resource Management, Personnel, Logistics, and Operations and Intelligence. In January 1974, the last named general staff agency was restructured as DCS for Operations, Readiness, and Intelligence. In 1974, *schools* was dropped from the title, but not from the purview of the DCS for Training.

There were four major reorganizations of TRADOC headquarters since 1973. These occurred in 1979, 1990, 2002–03 and 2007. The 1979 reorganization, implemented provisionally in April and formally on 1 October of that year, was prompted by the decision of TRADOC CG GEN Starry to shift resources to the main mission components—the deputies for Training, Combat Developments, and ROTC. Another impelling cause was GEN Starry’s decision to involve TRADOC more emphatically in doctrine development. The new structure retained the DCSs for Training, Combat Developments, ROTC, and Resource Management. It disestablished the DCSs for Personnel; Logistics; and Operations, Readiness, and Intelligence. The 1979 action established new DCSs for Doctrine, Personnel and Logistics, and Engineer.

In 1990, the headquarters downsized with the rest of the Army. The offices of the DCSs for Personnel, Administration, and Logistics; Contracting; and Engineer; together with Surgeon, Chaplain, and other selected staff offices were merged into the DCS for Base Operations Support. The DCSs for Doctrine, Intelligence, and Combat Developments were merged into the DCS for Concepts, Doctrine, and Developments, with transfer of some functions to Headquarters, Combined Arms Center, which became Combined Arms Command in October 1990. A third major change was the establishment of the TRADOC Analysis Command (TRAC) at Fort Leavenworth, KS, as DCS for Analysis on the headquarters staff, albeit with a local staff representative. This reorganization left the offices of the DCSs for Information Management, Resource Management, and Training substantially unchanged; the office of the DCS for Training was reorganized internally. The 1990 merger of the doctrine office with combat developments did not work well, and on 1 October 1992, these functions

became the Office of the DCS (ODCS) for Doctrine and the ODCS for Combat Developments.

The effort to transform TRADOC in line with changes to the entire Army began to bear fruit in 2002; the command did not expect all of the changes to be complete until 2006, after Congress initiated a new round of BRAC actions. TRADOC leaders anticipated that the command would look significantly different by the end of 2011.

Effective 20 July 2007, the TRADOC staff reorganized to improve alignment of TRADOC responsibilities with the operational Army, staff titles were changed to reflect the new G-Staff organization.

G-Staff Organization	
Previous Title	G-Staff Title
DCS, Personnel, Infrastructure & Logistics	G-1/4
DCS, Intelligence	G-2
DCS, Operations and Training	G-3/5/7
Chief Information Officer	G-6
DCS, Resource Management	G-8

Figure 46. New G-Staff Organization, 2007. Created by Army University Press.

Installations and Changes, 1973–2003

TRADOC commanded 20 major installations on the day it was established. Fort Wolters closed in 1974, and Forts Ord and Polk were transferred to US Forces Command (FORSCOM) when their missions changed from training to unit stationing. In 1992, training at Fort Dix, NJ, was phased out and it, too, was transferred to FORSCOM. Thereafter, TRADOC operated 16 installations until 1 October 2003, when the Army’s Installation Management Agency (IMA) assumed control of all Army installations. However, TRADOC mission commanders remained in the rating chains of the installation commanders to provide input on how the installations were run. IMA became Installation Management Command (IMCOM) in October 2006.

Intermediate Level Changes, 1973–2003

In September 1977, TRADOC’s intermediate-level structure was strengthened to give the three functional centers a stronger integrating

role vis-à-vis their associated TRADOC schools. The three-star TRADOC DCG position moved from Fort Monroe, VA, to Fort Leavenworth, KS, making the commander of the Combined Arms Center (CAC) dual-hatted. Beyond his local duties as CAC commander, as deputy commander, TRADOC he was to execute specific TRADOC missions. He was to direct, coordinate, and integrate combined arms doctrine, organization, and combat and training development programs for the Army.

In 1980, TRADOC reorganized and redesignated the Fort Benjamin Harrison agency as the US Army Soldier Support Center with much stronger doctrinal and training responsibilities in the personnel, administration, finance, and automatic data processing areas. The action also included replacement of the center's Institute of Administration by a newly renamed US Army Institute of Personnel and Resource Management. Two branch schools, the Finance and Adjutant General Schools, along with two new specialist-type schools, the Computer Science School and the Personnel Management School, were aligned under the new institute. In 1984, the institute was subsequently redesignated the Soldier Support Institute (SSI).

In April 1983, the Logistics Center commander, Fort Lee, VA, was redesignated the TRADOC DCG for Logistics, and the position was upgraded to a three-star billet. The Logistics Center remained in tenant status on the installation, which was commanded by one of its subordinate organizations, the US Army Quartermaster Center and Fort Lee. On 3 January 1989, that anomaly was rectified when the TRADOC commander brought the Fort Lee structure in line with that existing at Fort Leavenworth and Fort Benjamin Harrison by establishing the US Army Logistics Center and Fort Lee, with the US Army Quartermaster Center and School becoming the tenant.

The integrating center structure remained in place until the end of the Cold War, which began a period of hasty, ill-conceived Army draw-downs and consolidations. On 1 October 1990, TRADOC replaced the integrating center structure with two major subordinate commands. As mentioned above, the Combined Arms Command replaced the Combined Arms Center. Internal reductions and realignments recast the commanders of the Combined Arms Combat Developments Activity and the Combined Arms Training Activity as deputy CAC commanders for combat developments and for training. The second major action merged the Soldier Support Center with the Logistics Center creating the Combined Arms Support Command (CASCOM) headquartered at Fort Lee, VA. At that time, the Soldier Support Center's SSI was eliminated as an administrative organization layered between the center and the resident schools.

In 1993, because of budget reductions and a changed world situation, TRADOC launched a *reengineering* initiative. TRADOC headquarters assumed the integration function traditionally held by CAC and CASCOM.

That action necessitated several organizational and functional changes in both CAC and CASCOM, most of which were completed by the end of 1994. In July of that year, CAC once again became a center. The reorganization shifted some functions and personnel from Fort Leavenworth, KS, to other TRADOC installations. In addition, CAC's combat development, doctrinal concepts, and integration functions moved to HQ, TRADOC. The CASCOM reorganization included the centralization of combat developments, training developments, proponentcy and evaluation, and standardization at HQ, CASCOM, VA.

Schools

Under the STEADFAST reorganization, TRADOC commanded 16 branch schools, 8 military schools and colleges, and 4 specialist schools. As previously noted, the Primary Helicopter School at Fort Wolters, TX, was discontinued on 30 June 1974. TRADOC inherited two Signal schools from CONARC, the Signal School at Fort Monmouth, NJ, and the Southeastern Signal School at Fort Gordon, GA. On 1 July 1974, the Monmouth organization became the Communications-Electronics School, and the Gordon organization was redesignated the Signal School, a step in consolidating all Signal training at the southern post. That occurred two years later when the Communications-Electronics School was discontinued on 31 October 1976. The Chaplain School, located at Fort Hamilton, moved to larger facilities at Fort Wadsworth, NY, a sub-post of Fort Dix, on 15 August 1974. It remained there until Fort Wadsworth was closed on 1 August 1979 and relocated to Fort Monmouth, NJ. On 1 July 1975, the Military Police School moved from Fort Gordon, GA, to Fort McClellan, AL, to make room for the consolidation of Signal training.

On 1 July 1975, the Organizational Effectiveness Training Center was established at Fort Ord, CA, to inculcate and teach organizational skills. On 2 April 1979, it was redesignated the Organizational Effectiveness Center (OEC) and School. On 1 October 1985, it was closed. Ironically, effective 2022, the OEC observations, insights, and lessons learned (OILL) were reapplied to the new Cohesion Assistance Team (CAT), headed by the Center of Initial Military Training (CIMT), Fort Eustis, VA. Note that the CAT originated in HQDA, as one of many outcomes from the Fort Hood Independent Review (FHIR) Commission and report.

On 1 October 1976, the US Army Security Agency Training Center and School at Fort Devens, MA, was transferred into the TRADOC school system. Since April 1951, Fort Devens was used for intelligence training. The new TRADOC school was renamed the Intelligence School, Fort Devens, and was subordinate to the commandant of the Intelligence Center and School at Fort Huachuca, AZ. The BRAC Act of 1988 directed Fort Devens to close and consolidate with Fort Huachuca, which was completed in 1994.⁵⁷

Beginning in the 1970s, female soldiers were integrated into the main branches of the Army. As a result, the Women's Army Corps Center and School at Fort McClellan was discontinued in 1978. On 30 November 1976, the first post-Vietnam move in the direction of a larger chemical training program occurred with the redesignation of the Ordnance Center and School at Aberdeen Proving Ground, MD, as the Ordnance and Chemical Center and School. As plans unfolded, the Chemical School was moved and established as a separate school at Fort McClellan, AL, on 14 September 1979.

On 12 April 1983, the Aviation School, historically a specialist school, became a branch school following designation of Army aviation as a branch by order of the SECARMY. On 1 October 1983, simultaneous expansion of the aviation logistics mission prompted TRADOC to establish an Aviation Logistics School, collocated with the Transportation School, at Fort Eustis, VA. On 10 January 1984, those two schools were merged as the Transportation and Aviation Logistics Schools. On 1 October 1988, TRADOC brought the Aviation Logistics School under the direct authority of the Commander, US Army Aviation Center, while leaving it at Fort Eustis. A similar realignment occurred with placement of the Missile and Munitions Center and School at Redstone Arsenal, AL, under the commander of the Ordnance Center and School at Aberdeen Proving Ground, MD. On 3 August 1984, the Redstone facility was realigned and retitled the Ordnance Missile and Munitions Center and School.

On 1 October 1983, the Institute for Military Assistance at Fort Bragg, NC, was redesignated the JFK Special Warfare Center, because of a special operations forces (SOF) realignment that year. The JFK Special Warfare Center was in essence a branch school but was categorized as a TRADOC special activity. Further SOF realignments transferred the TRADOC school to the US Army Special Operations Command at Fort Bragg on 20 June 1990. TRADOC gained the US Army School of the Americas (SOA) when provisions of the Panama Canal Treaty of 1977 necessitated the transfer of that US Army Security Assistance Agency component,

located at Fort Gulick, Panama, to CONUS. The school was relocated to Fort Benning and transferred provisionally to TRADOC on 16 December 1985, and formally on 16 April 1986. On 17 January 2001, the SOA was inactivated and became the Western Hemisphere Institute for Security Cooperation (WHINSEC), aligned directly under the SECDEF with TRADOC as its executive agent. In 1988, following earlier designation of the Signal Center as proponent for the information mission area, the Computer Science School, a component of the Soldier Support Institute (SSI) at Fort Benjamin Harrison, was transferred to Fort Gordon.

When DA decided to develop advanced training for Army civilians in the form of the Army Management Staff College (AMSC), TRADOC assumed proponentcy for it in August 1987. AMSC initially opened in Baltimore, MD, in July 1986, and in August 1987, Fort Belvoir, VA, was selected as the new site for the school. Following assignment of a full-time commandant, classes were convened at the Fort Belvoir location in 1990. On 1 October 1991, TRADOC acquired the Army Logistics Management College (ALMC) at Fort Lee from AMC. In July 2002, the two schools subordinate to the Ordnance Center and Schools, one at Redstone Arsenal, AL, and the other at Aberdeen Proving Ground, MD, were renamed, respectively, the Ordnance Munitions and Electronics Maintenance School (OMEMS) and the Ordnance Mechanical Maintenance School (OMMS). In 2012, AMSC relocated and consolidated to Fort Leavenworth, KS.⁵⁸

Training Organizations

Throughout TRADOC's history, training organizations continued to evolve. A large portion of basic combat and advanced individual training was conducted by the Army Training Centers (ATCs) at Forts Dix, Jackson, and Leonard Wood, which were devoted specifically to that mission. IET was also conducted at the ATCs at Forts Knox, Benning, Gordon, Sill, and Bliss. Women's Army Corps (WAC) training was conducted at Fort McClellan. In 1973, TRADOC commanded seven ATCs. In 1976, that rose to 11 when One-Station Unit Training (OSUT) was phased in at several posts. OSUT enabled trainees to pass directly from basic to branch-related AIT, saving both time and travel. The number of ATCs dropped to 8 in the early 1980s and was maintained at that level until the 1992 closeout of training at Fort Dix. TRADOC also commanded NCO academies and drill sergeant schools through several of its installations, as well as an Active Component OCS at Fort Benning, GA.

On 1 August 1974, the two specialized training agencies under TRADOC jurisdiction, the Combat Arms Training Board at Fort Benning, and the Training Aids Management Agency at Fort Eustis, were joined by a new Training Devices Requirements Office at Fort Benning, responsible for Army-wide training device requirements. On 1 July 1975, the Fort Eustis agency was redesignated the Army Training Support Activity. On 1 July 1976, the training support program at Fort Eustis was expanded, consolidated, and retitled Army Training Support Center (ATSC).

The Training Management Institute, established at Fort Eustis on 16 July 1975 to further training improvements through workshops and special projects, was redesignated the Training Developments Institute on 2 May 1977. A further change was the combination of the Logistics Training Board at Fort Lee and the Combat Arms Training Board at Fort Benning into a redesignated Army Training Board on 1 October 1977, also located at Fort Eustis. Both the Training Developments Institute, which was renamed the Training Technology Agency, and the Army Training Board eventually moved to Fort Monroe. The former was inactivated in 1988 and the latter in 1989.

Test Organizations

In August 1974, the major test facility at Fort Hood, TX, known as the Modern Army Selected Systems Test Evaluation and Review (MASSTER) was transferred to TRADOC from FORSCOM. AMC's subordinate Test and Evaluation Command (TECOM) also transferred five test boards to TRADOC. The test boards gave TRADOC, as the user representative, control over the means for early-stage conceptual and experimental work in the fields of airborne, communications, electronics, field artillery, infantry, armor, engineer, and air defense. These boards were subsequently joined by an aviation board and an intelligence and security board. In December 1980, as the testing mission grew, TRADOC established a headquarters, DCS for Test and Evaluation. In March 1985, that position was eliminated and the function returned to the DCS for Combat Developments.

Late in 2002, the position of DCG-IET, created in 1997, became dual-hatted with the new Army Accessions Command (AAC). The mission for the DCG-IET was to ensure that initial entry training remained challenging, safe, relevant, realistic, and executed to Army standards. Originally, DCG-IET had oversight for IET policies and programs encompassing the entire process of bringing soldiers into the force from recruitment to the completion of AIT. With the establishment of the Accessions Command, the recruitment function

became the responsibility of the new command. Another major change was the establishment of a TRADOC DCG, Transformation at Fort Lewis to command the Brigade Coordination Cell of the Interim Brigade Combat Teams (IBCTs) that were established as a test bed for transformation initiatives.

The DCG, Combined Arms, physically located at Fort Leavenworth, KS, and the DCG, Combat Service Support, located at Fort Lee, VA, had oversight for near-term and mid-term training in their respective realms. The DCGs for the Army National Guard and for the Army Reserve, both headquartered at Fort Monroe, VA, were responsible for integrating doctrine, training, and combat development throughout the Reserve Components.

Also in 2002, the DCSs for Doctrine, Combat Developments, Training, and Intelligence received new titles. The DCS for Doctrine became the DCS for Doctrine, Concepts, and Strategy. Training now fell under the DCS for Operations and Training. The DCS for Combat Developments became the DCS for Developments to bring the title more in line with transformation efforts. The Directorate of Information Management came under the purview of the DCS for Command, Control, Communications, and Computers (DCSC4). In 2010, the TRADOC Systems Managers (TSMs) became TRADOC Capability Managers (TCMs). In 2018, TCMs became Army Capability Managers (ACMs), and were under the operational control (OPCON) of AFC since November 2020. In October 2021, AFC also assumed Administrative Control (ADCON) of the ACMs.

TRADOC Organization

TRADOC continued as a major command (MACOM) until the Army was reorganized in September 2006. At that time, it became one of three Army Commands (ACOM) along with FORSCOM and AMC. Headquarters, TRADOC consisted of a command group; the commanding general's personal and special staffs; four DCGs, one each for Initial Military Training (IMT), Combined Arms (CA), Army National Guard (ARNG), and US Army Reserve (USAR); and the G-Staff composed of the G1/4, G2, G3/5/7, G6, and G8. A fifth DCG—Futures—became part of AFC in 2018, and thus is not otherwise listed here.

Several unique organizations evolved within TRADOC. Three of these were the Brigade Modernization Command (BMC) [now the Joint Modernization Command (JMC)], the Training Brain Operations Center (TBOC), and the TRADOC Intelligence Support Activity (TRISA). JMC has become part of AFC. DCS G2 has since reorganized.

Joint Modernization Command (formerly Brigade Modernization Command)

In 2005, the BMC was initially organized as the Future Force Integration Directorate (FFID) of the Army Futures Center. In 2006, the Futures Center became the Army Capabilities Integration Center (ARCIC). FFID's initial mission was to establish an on-site integration organization to facilitate development, testing, and evaluation of the Future Combat System (FCS). In March 2007, ARCIC approved additional personnel for a general officer staff organization, which replicated a division headquarters. In August of that same year, the FFID mission was modified to integrate modernization efforts in support of Army transformation to provide joint force commanders with FCS-enabled modular brigades beginning in fiscal year 2011 and an FCS Brigade Combat Team (BCT) at full operational capability in 2017. On 1 October 2007, FFID attained initial operational capability and assumed responsibility for FCS from the Unit of Action Maneuver Battle Laboratory (UAMBL) at Fort Knox, KY. In late 2010, the Vice Chief of Staff, Army (VCSA), directed that FFID, along with Fort Bliss, TX, and White Sands Missile Range, NM, together become the Army's centerpiece for network integration. Since this would require a full BCT to load and test the network, the CSA directed that the 2nd Brigade Combat Team (BCT), 1st Armored Division, take over the Army Evaluation Task Force (AETF) mission from the division's 5th Brigade, which would be deactivated in March 2011.⁵⁹ On 7 February 2011, the CSA directed that FFID be re-designated the Brigade Modernization Command (BMC) with a mission to conduct physical integration and evaluations of the network, capability packages, and other capabilities in order to provide DOTMLPF-P recommendations to the Army.

On 7 February 2017, BMC changed its name to the US Army Joint Modernization Command (JMC), and the Army Warfighting Assessment (AWA) series of experiments became the US Army Joint Warfighting Assessment (JWA).⁶⁰ Additionally, 2nd BCT/1AD was removed from dedicated testing and put back into the readiness pool due to the needs of the Army. The first rotating replacement was the 2nd BCT, 101st Airborne Division, which participated in Network Integration Evaluation (NIE) 17.2 beginning in July 2017.⁶¹

TRADOC G2: TRADOC Deputy Chief of Staff (DCS), G-2

The mission of the G-2 has evolved from its initial mission and primary emphasis on Security to directing the Operational Environment (OE)

Enterprise and authoring the Army approved current OE. The TRADOC DCS G-2 develops, describes, and delivers the OE to fight and win the nation's wars. The organization consists of directorates focused on understanding, analyzing, describing, delivering, and assessing the OE in support of the Army and unified action partners and in coordination with stakeholders and the intelligence community, academia, industry, and multinational forces.

The G-2 serves as TRADOC's command security manager in accordance with AR 380-5. The G-2 provides information and personnel security, foreign disclosure, industrial security, technical security, security education awareness training, NATO security, intelligence oversight programs and G-2X (Advisor for Human Intelligence and Counterintelligence). The G-2 is the career program manager for CP 35 and the Defense Civilian Intelligence Personnel System (DCIPS) manager for TRADOC.

Areas of OE delivery focus include serving as the Army's responsible official for development and approval functions of the Opposing Force (OPFOR) Program as prescribed in AR 350-2, including defining OE/OPFOR modernization requirements and accrediting OE/OPFOR replication within Army collective training programs. OE delivery focus also includes staff oversight of the TRADOC Devil's Advocate Red Team (DART) which provides red teaming support to TRADOC to reduce risk and increase opportunities. G-2 also provides staff oversight of the TRADOC US Air Force Weather Office.

G-2 personnel are located at TRADOC Headquarters at Fort Eustis, VA, and with the CAC Headquarters at Fort Leavenworth, KS.

TRADOC G2: US Army Accessions Command (AAC)

Established 15 February 2002, at Fort Monroe, VA, as a subordinate command of TRADOC, AAC was responsible for providing integrated command and control from recruiting through initial military training, including enlisted, warrant officer, and officer personnel. After moving to Fort Knox, KY, as a result of BRAC 2005, AAC was inactivated on 18 January 2012. This inactivation resulted from efficiency reviews conducted by the Army and DoD. AAC's inactivation was expected to create economic savings through manpower reductions, including the elimination of two general officer and 65 other military positions, about 130 civilian positions, and 290 contractor man-years.

There was significant friction created as the organizations previously run by AAC, notably the US Army Recruiting Command (USAREC) and the US Army Cadet Command (USACC), which were both Commands in their own right, were subordinated to the US Army Center for Initial Military Training (CIMT). However, the CIMT was not a command, and it was downgraded from a three-star to a two-star organization. Name changes were also confusing. On 13 March 2014, the Initial Military Training Center of Excellence was redesignated the US Army Initial Military Training Center.⁶² The general officer in charge was dual-hatted as the Deputy Commanding General-Initial Military Training. Under MG Ross E. Ridge, fourth commanding general of CIMT, the CIMT Commander also gained responsibility as the senior commander, Army Element for Joint-Basing and housekeeping concerns in liaison with the USAF on Joint Base Langley-Eustis, VA.⁶³

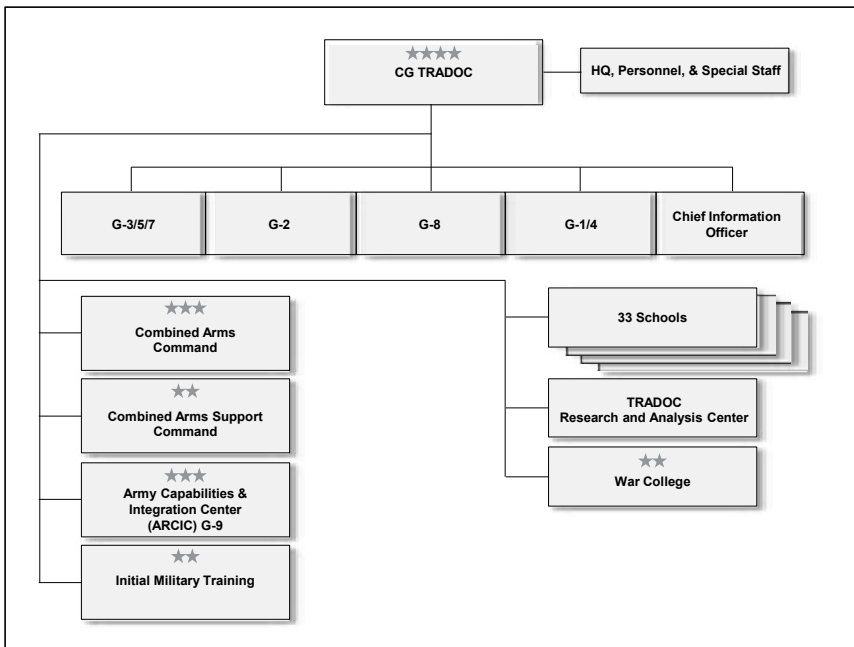


Figure 47. TRADOC Organization, early 2013. Created by Army University Press.

Deputy Commanding Generals (DCGs)

DCG-Combined Arms/CAC Commanding General

In 1977, TRADOC's DCG-Combined Arms was dual-hatted as the commanding general of the Combined Arms Center (CAC), Fort Leavenworth, KS. CAC's commander has served as the TRADOC proponent for leader development; professional military education (officer, warrant officer, NCO, and civilian); mission command (formerly battle command); and command, control, communications, computers, intelligence, surveillance, and reconnaissance (more commonly known as C4ISR and—though the terms *ISR* and *C2* were discontinued by the Army—they have remained in Joint usage); collective training; Army doctrine; and dissemination of observations/lessons learned.⁶⁴ The CAC commander was responsible for providing guidance, leadership, and command supervision to the branch centers/schools to ensure that training remained safe, relevant, and realistic and executed to Army standards. CAC's commander was also responsible for the Army's Combat Training Center Program.⁶⁵

Post-BRAC 2005 TRADOC installations

1. Fort Benning, GA
2. Fort Bliss, TX
3. Fort Eustis, VA
4. Fort Gordon, GA
5. Fort Huachuca, AZ
6. Fort Jackson, SC
7. Fort Leavenworth, KS
8. Fort Lee, VA
9. Fort Leonard Wood, MO
10. Fort Rucker, AL
11. Fort Sill, OK
12. Presidio of Monterey, CA

DCG-Initial Military Training (IMT)

The DCG-IMT was the TRADOC executive responsible for the Army's officer, warrant officer, and enlisted training processes. In addition, the DCG-IMT, also known as the Center of Initial Military Training (CIMT), was responsible for providing IMT policy and execution guidance to TRADOC commanders and staff outside the IMT chain of command. IMT encompassed reception-battalion operations that support IMT;

basic combat training; advanced individual training; one-station unit training; Reserve Officer Training Corps (ROTC); Officer Candidate School (OCS); Warrant Officer Candidate School (WOCS); Basic Officer Leader Course (BOLC) Phases A and B; and recruiter, drill sergeant, and other IMT cadre training. Effective 13 June 2022, the CG, ATC Jackson, became the DCG for IMT. CIMT, as mentioned above, became responsible for the Cohesion Assistance Team (CAT), a HQDA initiative borne out of the findings of the FHIR. HQDA also mandated that TRADOC, via CIMT, was responsible for creating and implementing a new Army physical fitness test of record that bore fruit, and is now known as the Army Combat Fitness Test (ACFT). The Holistic Health and Fitness (H2F) effort is likewise a DA-mandated program, created and implemented by CIMT. For a two-star headquarters, CIMT has done a lot of work for the Army at large.⁶⁶

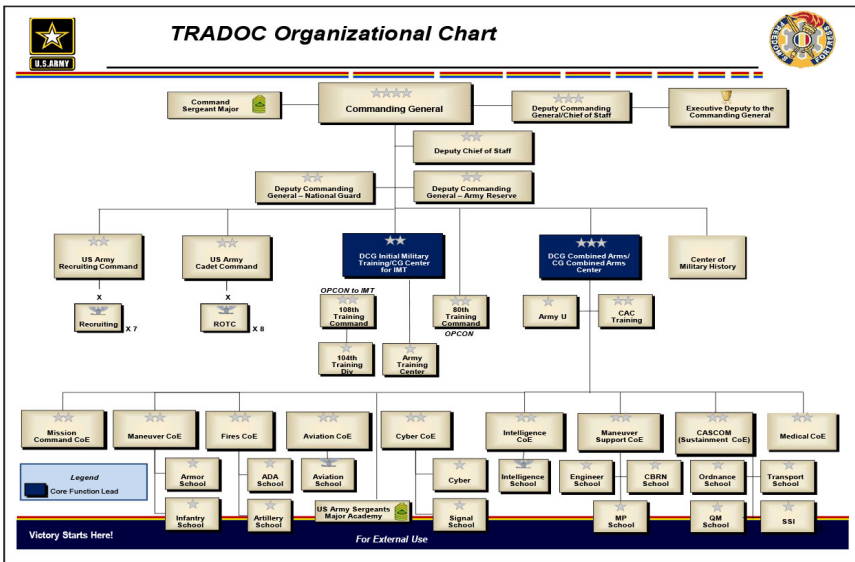


Figure 48. TRADOC Organizational Chart showing US Army Center for Initial Military Training (CIMT) placement, late 2022. Created by Army University Press.

DCG-Army Reserve

The DCG-Army Reserve assisted the TRADOC commander in executing missions that require integration of Reserve soldiers.

DCG-National Guard

The DCG-Army National Guard (ARNG) assisted TRADOC's commander in DOTMLPF-P matters affecting the training and readiness of Army National Guard Soldiers and championed TRADOC programs and future initiatives through existing senior-level forums.

Deputy Chiefs of Staff (DCS)

- DCS, G-1/4 (Personnel and Logistics)
- DCS, G-2 (Intelligence)
- DCS, G-3/5/7 (Operations, Plans, and Training)
- DCS, G-6 (Command, Control, Communications, and Computers)
- DCS, G-8 (Resource Management)

Personal and Special Staff

- Chaplain
- Secretary of the General Staff (SGS)
- Command Diversity Office
- Executive Services Office
- Inspector General
- Internal Review and Audit Compliance
- TRADOC Military History and Heritage Office
- Public Affairs
- Quality Assurance Office
- Safety Office
- Surgeon

Schools

As of 2022, TRADOC operated 38 centers and schools on 12 installations:

1. Adjutant General School, Fort Jackson, SC
2. Airborne School, Fort Benning, GA
3. Air Defense Artillery Center/School, Fort Sill, OK
4. Armor Center/School, Fort Benning, GA
5. Army Logistics University, Fort Lee, VA
6. Army Management Staff College, Fort Leavenworth, KS
7. Aviation Center/School, Fort Rucker, AL
8. Aviation Logistics School (128th Aviation BDE), Fort Eustis, VA

9. Basic Combat Training Center, Fort Benning, GA
10. Basic Combat Training Center, Fort Jackson, SC
11. Basic Combat Training Center, Fort Leonard Wood, MO
12. Basic Combat Training Center, Fort Sill, OK
13. Chaplain School, Fort Jackson, SC
14. Chemical, Biological, Radiological, and Nuclear (CBRN) School, Maneuver Support Center, Fort Leonard Wood, MO
15. Command and General Staff College, Fort Leavenworth, KS
16. Cyber Center/School, Fort Gordon, GA
17. Defense Language Institute/Foreign Language Center, Presidio of Monterey, CA
18. Drill Sergeant School, Fort Jackson, SC
19. Engineer School, Maneuver Support Center, Fort Leonard Wood, MO
20. Field Artillery Center/School, Fort Sill, OK
21. Finance School, Fort Jackson, SC
22. Infantry Center/School, Fort Benning, GA
23. Intelligence Center/School, Fort Huachuca, AZ
24. Military Police School, Maneuver Support Center, Fort Leonard Wood, MO
25. Officer Candidate School, Fort Benning, GA
26. Ordnance Center/School, Fort Lee, VA
27. Physical Fitness School, Fort Jackson, SC
28. Quartermaster Center/School, Fort Lee, VA
29. Ranger School, Fort Benning, GA
30. Recruiting and Retention School, Fort Jackson, SC
31. School of Advanced Military Studies, Fort Leavenworth, KS
32. School of Information Technology, Signal Center, Fort Gordon, GA
33. Sergeants Major Academy, Fort Bliss, TX
34. Signal School, Fort Gordon, GA
35. Transportation Center/School, Fort Lee, VA
36. University of Foreign Military and Cultural Studies (UFMCS), Fort Leavenworth, KS
37. Warrant Officer Career College, Fort Rucker, AL
38. Western Hemisphere Institute for Security Cooperation (WHINSEC), Fort Benning, GA

Centers and Centers of Excellence (CoE)

In conjunction with the BRAC 2005 process, TRADOC made the transition to six CoEs centered largely on the same number of warfighting functions. A CoE was defined as a designated command or organization within an assigned area of expertise that delivered current warfighting requirements; identified future capabilities; integrated assigned DOTM-LPF-P dimensions; and presented resource-informed, outcomes-based recommendations to the TRADOC commanding general:

- The Field Artillery Center/School and Air Defense Artillery Center /School combined to form the Fires CoE, Fort Sill, OK.
- The Armor Center/School and Infantry Center/School combined to form the Maneuver CoE at Fort Benning, GA, which developed a close coordinating relationship with the Aviation CoE at Fort Rucker, AL.
- The Maneuver Support CoE, Fort Leonard Wood, MO, since the mid-1990s has consisted of the CBRN, Engineer, and Military Police Schools.
- The Ordnance Center/School, Transportation Center/ School, and Quartermaster Center/School combined to form the Combined Arms Support Command (CASCOM)/Sustainment CoE (SCoE) at Fort Lee, VA. Associated with the SCoE were the Ordnance Munitions and Electronics Maintenance School (OMEMS), Redstone Arsenal, AL, which moved to Fort Lee; and the Soldier Support Institute (Adjutant General and Finance Schools), Fort Jackson, SC, which remained in place but developed a close coordinating relationship with CASCOM/SCoE.
- The Mission Command CoE was established as part of CAC at Fort Leavenworth, KS, and formed a close working relationship with the Intelligence CoE at Fort Huachuca, AZ, and the Cyber CoE (formerly Signal CoE) at Fort Gordon, GA. Intelligence retained its identity as the sixth warfighting function.
- The Center for Initial Military Training (IMT), Fort Eustis, VA, remained a Center, but was not designated a CoE.

Other TRADOC Major Subordinate Organizations

- Combined Arms Support Command (CASCOM), Fort Lee, VA.
- The TRADOC Analysis Centers (TRACs), located at Fort Leavenworth, KS; White Sands Missile Range, NM; and Fort Lee, VA, were transferred to AFC, and the names changed from TRADOC Analysis Center to The Research and Analysis Center, thereby keeping the decades-long abbreviation “TRAC.”
- On 1 April 2019, the Center for the Army Profession and Ethic (CAPE), combined with the Center for Army Leadership (CAL), and became the Center for the Army Profession and Leadership, Fort Leavenworth, KS. CAPE was previously located at US Military Academy at West Point, NY.

Former Direct Reporting Units Asymmetric Warfare Group (AWG)

On 11 November 2011, the Asymmetric Warfare Group (AWG) was assigned as a Direct Reporting Unit (DRU) to TRADOC. It traced its lineage/existence to 2003, with the Army Improvised Explosive Device (IED) Task Force. The Task Force proved its relevance; thus, in June 2004, the name changed to the Asymmetric Warfare Regiment (AWR). On 12 June



Figure 49. AWG logo. Source: US Army.

2004, due to the initial successes achieved as well as the overriding need for a coordinated, department-wide effort, the deputy secretary of defense established the Army-led Joint IED Defeat Integrated Process Team (IPT). The original Army task force, augmented by joint service staff officers and NCOs, continued to work the counter-IED mission as the Joint IED Defeat Task Force. In January 2006, the AWG was established as a Field Operating Agency under the Operational Control (OPCON) of the HQ DA G-3/5/7. On 8 March 2006, the AWG was activated at Fort Meade, MD.⁶⁷

On 2 October 2020, the Army announced it planned to close AWG by 30 September 2021. On 13 March 2021, AWG was officially deactivated.⁶⁸

Rapid Equipping Force (REF)

The REF provided materiel solutions to the needs discovered by the AWG and others. As an example of their work quantity and quality, in 2nd Quarter Fiscal Year 2016 alone, they received 127 distinct requirements, and provided support to Army Service Component Commands (ASCCs), Army Commands (ACOMs), and Combatant Commands (COCOMs). A small unclassified sample of solutions-to-requirements included: a Subter-



Figure 50. TRADOC CG GEN Paul E. Funk II spoke at the official AWG Color Casing Ceremony on 13 March 2021. Source: US Army, SPC Genesis Miranda, 55th Signal Co.

ranean Company Kit, the capability to conduct Electronic Surveillance and Attack, Persistent Elevated ISR for Small Units, Tactical Combat Casualty Care Exportable Medical Simulation Kit, and the Patriot Cooling System. The REF was located at Fort Belvoir, VA.

On 2 October 2020, the US Army announced it would close REF by 30 September 2021. There was no official deactivation ceremony.



Figure 51. REF logo. Source: US Army.

Chapter Eight International Activities

Since its establishment in 1973, TRADOC managed an expanding program of bilateral staff talks and exchanges with allied armies. Included in the command's responsibilities were the coordination of a quadripartite, or America, Britain, Canada, and Australia (ABCA) forum, and NATO standardization and interoperability programs.

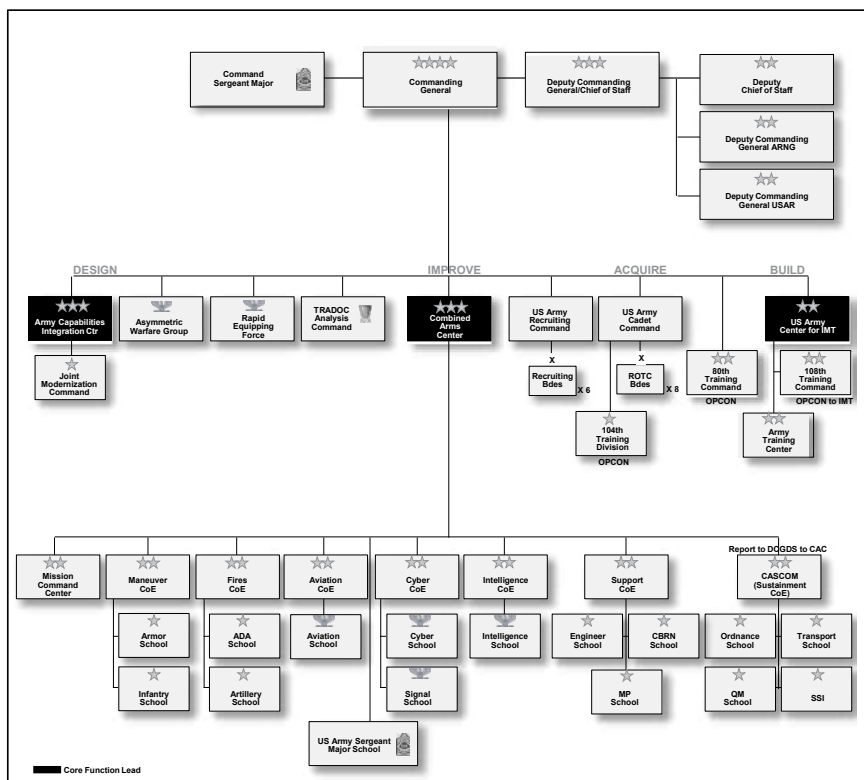


Figure 52. TRADOC Organization, 2017. Created by Army University Press.

Beginning in 1975 with the German Army, TRADOC began a series of bilateral army-to-army staff talks with other countries. By 2008, there were staff talks with 11 nations on a regular basis. In addition, TRADOC represented the US Army in more informal discussions with the Israeli Defense Force. International activities, including work with selected armies of Latin American nations, increased greatly. As part of the TRADOC

liaison network, TRADOC officers served abroad in Germany, the United Kingdom, France, Spain, Italy, Turkey, Israel, Republic of Korea, Japan, and Canada. At least 15 nations sent liaison officers to TRADOC headquarters. Liaison arrangements with Australia, Brazil, Canada, France, Germany, Israel, Italy, Japan, Korea, the Netherlands, Spain, Turkey, and the United Kingdom, were all long-standing; later additions included representatives from the Czech Republic and Greece. By 2008, the number had grown to 17 with the addition of Singapore and Norway. By 2016, a reciprocal arrangement was reached with Italy. The Maneuver CoE, Airborne and Ranger Training Brigade, made a separate but coordinated reciprocal exchange with the Colombian Lancero School.⁶⁹ That brought the number to 19.



Figure 53. LTG Bruno Kasdorf, German Army chief of staff, meets with LTG David Halverson, TRADOC DCG/chief of staff, Fort Eustis, VA. Source: US Army, <https://www.jble.af.mil/News/Photos/igphoto/2000086934/>.

The International Army Programs Directorate (IAPD), ARCIC, was responsible for the administration and logistical support of Foreign Liaison Officers assigned to Headquarters, TRADOC; the administrative support to TRADOC liaison officers assigned overseas; the implementation and day-to-day management of the TRADOC International Engagement Activities; and TRADOC support to Army-level bilateral staff talks. The Joint and Allied Doctrine Division (JADD) of ARCIC provided staff

management for the integration of Army doctrine into joint, multinational, and multi-Service doctrinal publications. JADD wrote selected joint and multinational doctrine and coordinated and reviewed selected joint Army doctrine. It focused primarily on strategic and operational level doctrine. Counterpart Visits were even more extensive, and included not only the above listed nations but also Chile, Denmark, El Salvador, India, Indonesia, Mali, New Zealand, Republic of the Philippines, Poland, Thailand, Tunisia, and the United Arab Emirates.⁷⁰ In 2015, IAPD was also involved with the Army-to-Army Dialogue Mechanism, held in Beijing, China.

Standardization and Interoperability

On its establishment, TRADOC continued Continental Army Command (CONARC) coordination of the Service schools' participation in international standardization programs held under the auspices of NATO and ABCA. NATO meetings included separate panel and working party conferences relating to a wide variety of military topics including weapons; inter-Service tactical air operations; mobility; nuclear, biological, and chemical (NBC) defense; and intelligence. ABCA meetings—more doctrinally oriented than the NATO meetings—related, among other things, to standardization in the fields of command and control, aviation, air defense, communications, and quality assurance.

In 1976, TRADOC assumed DA planning and coordination responsibilities for four NATO and four ABCA working parties. The new ABCA responsibilities included the air defense, armor, infantry, and surface-to-surface working groups. The NATO responsibilities were for the movement (including rail movement) and transport working parties; the land-based air defense weapons panel; and the NATO helicopter inter-Service working party. TRADOC provided delegates and data to the subgroups of both those forums. Actions in TRADOC's purview that were agreed to by the national parties and cleared by the review bodies were implemented by TRADOC on DA approval.

During fiscal year 1977, a new Defense Department emphasis on developing standardized equipment with NATO allies was felt at TRADOC. Related to that defense policy was the concept of seeking "interoperability" between like weapons or pieces of equipment that were being developed separately by the United States and an allied nation. The issue of a bi- or multi-lateral agreement in weapons development was sensitive, and usually meant that the United States would have to adopt more allied-built

weapons into its own arsenal if the principles of standardization and interoperability were to have any meaning. The Nunn-Culver Amendment to the 1977 DoD Appropriation Act formally committed the United States to standardization, or at least interoperability, with its allies.

During the 1980s, it became evident that doctrine to guide US Army operations with allied forces was needed. Though writing up-to-date Army and joint doctrine were already priority efforts, it was clear that future wars of any large dimension would likely be allied enterprises. Some alliance specific doctrine existed, such as Allied Tactical Publication (ATP)-35A, *Land Force Tactical Doctrine*, which was the NATO manual published by the Military Agency for Standardization in 1995. ATP-35A was contemporary with the 1993 edition of FM 100-5, which had several chapters devoted to combined arms operations. Also already published in a test version was JCS Publication 3-0, *Doctrine for Joint Operations*. But there was no formal and general combined operations field manual in the US Army inventory. Beginning in early 1989, TRADOC undertook the development of Field Manual (FM) 100-8, *Combined Army Operations*. Doctrine writers completed the preliminary draft of FM 100-8 in September 1992 and sent it to the TRADOC DCS for Doctrine for approval. After some revision, it was resubmitted in December. Over the next 5 years, the draft manual underwent significant revision, and its name was changed to *The Army in Multinational Operations*. FM 100-8 was finally published on 24 November 1997.

Bilateral Staff Talks

By virtue of its Army-wide doctrinal, combat developments, and training missions, TRADOC acted as the US Army's executive agent for bilateral staff talks and exercised multilateral contacts with allied and friendly armies around the world. Those significant activities were carried out from the command's headquarters at Fort Monroe. Beginning in 1975 with the first formal staff talks with the army of the Federal Republic of Germany, the level of activity in bilateral army-to-army dialogue increased to include staff talks with armies of the United Kingdom, France, Italy, Spain, Canada, Brazil, Korea, Australia, Israel, and Japan. The primary objective for talks among formally allied armies was the enhancement of the ability to operate together with common understanding of the battlefield and interoperable equipment with which to fight. Further, in discussions with friendly countries, TRADOC aimed to develop instructive exchange on broader areas of interest. In addition, over its 52-year history, TRADOC

increasingly carried out cooperative activities with the armies of several Latin American countries. In the absence of formal talks, informal bilateral exchanges were common, as were visits by senior officers of allied and some non-allied armies to TRADOC headquarters, centers, and schools, and numerous visits by senior TRADOC officials to other armies.

With the apparent end of the Cold War in the early 1990s, bilateral talks routinely continued but without the urgency of a looming Soviet threat. New dialogues opened with former East Bloc countries and even with China. However, with the beginning of the Global War on Terrorism in 2001, bilateral talks, as well as issues of interoperability, regained urgency. Operations in Iraq and Afghanistan included several allied nations. Once the conventional aspects of the war ended, COIN warfare dominated discussions. Allies with experience in the COIN environment were asked for their views. TRADOC coordinated the reviewing, editing, and staffing of Allied Joint Publications (AJP), which included the subjects of allied military police operations, joint airspace control, personnel recovery, targeting, information operations, humanitarian assistance, and other efforts. Like joint operations with other Services, the Army and TRADOC became directly involved with allies in developing doctrine and procedures from inception rather than merely reactively adjusting to already established procedures.



Figure 54. LTG David Halverson (left), TRADOC DCG/CoS, visits with MG Farah Mohamed, Tanzania People's Defense Force chief of operations and training, at HQ TRADOC, Fort Eustis, VA. Source: TRADOC Military History Office.

On 5 August 2011, the Director of ARCIC approved the Building Partner Capacity (BPC) Individual Training (IT) Action Plan. TRADOC served as the Army lead for the IT Line of Effort (LOE). This action plan, based on BPC IT LOE Working Group (WG) analysis, provided an initial review of the foundation knowledge and skills needed, and at what levels of the Professional Military Education (PME) continuum they should be taught, to further advance BPC competency and understanding. The intent was to best enable the Army's general-purpose forces to collectively train and execute missions supporting BPC. The WG's initial recommendations were further analyzed by training developers in various proponent agencies and CoEs to determine the exact course content, hours of instruction, and best ways to integrate the training and education of these knowledge types and skills at various PME levels. The BPC IT LOE Workshop identified 21 foundational knowledge and skills needed by soldiers at various points in their career. On 22 November 2011, TRADOC published TRADOC Pam 525-8-4, *The US Army Concept for Building Partner Capacity*. The BPC concept included nine future force required capabilities that were to improve the Army's ability to prevent and deter conflict and prevail in a wide range of contingencies. The concept underpinned the BPC capabilities-based assessment (CBA) that was already well underway.

When ARCIC became part of AFC, Security Assistance Training Field Activity (SATFA) was removed from ARCIC and subordinated to HQ TRADOC G-3/5/7, thus retaining this international team building capability. Likewise, the International Army Program Directorate (IAPD) was also retained under TRADOC G-3/5/7.

Chapter Nine

TRADOC's Final and Lasting Contributions to the US Army

COVID-19 Impacts on TRADOC

The Nation, the Army, and TRADOC faced significant challenges during TRADOC's final six years—from the outbreak of COVID-19, to the drop in the younger generations' propensity to serve. TRADOC innovated transformative changes on how to generate and develop the force, sealing its legacy as the Architect of the Army.

The government reaction to the COVID-19 pandemic initially affected TRADOC greatly. A disease characterized as a “pneumonia of unknown etiology (PUE)” was known to exist in China by 12 December 2019. The first death from this PUE was reported on 11 January 2020, also in China. As of 14 January 2020, China was still insisting the disease was not transmissible on a human-to-human basis, and the World Health Organization (WHO) said via Twitter that the world should believe China. The first case of what became known as COVID-19 was reported in France in December 2019. On 15 January 2020, the first case of COVID-19 was recorded in Japan. By 21 January 2020, the first US case was reported; by this time, China acknowledged that the disease was, in fact, transmissible from human to human.

By 28 January 2020, HQDA G1 had issued its first All Army Activities (ALARACT) message regarding COVID-19. On 31 January 2020, the Department of Health and Human Services (DHHS) issued a Public Health Emergency (PHE) for the United States. By late February 2020, TRADOC had activated and manned its 24-hour Emergency Operations Center with an emphasis on COVID. By 5 March 2020, the TRADOC COVID-19 running estimate was posted to the intra-TRADOC website. By 9 March 2020, a new term entered the military lexicon: HPCON, for Health Protection Condition, similar to the standard FPCON, or Force Protection Condition. Also, the TRADOC Crisis Action Team (CAT) was stood up, specifically for COVID-19 as it pertained to all TRADOC installations, activities, and schools, to report up to HQDA. On 7 March 2020, the first case of COVID-19 was reported in Virginia. On 11 March 2020, the WHO finally declared COVID-19 a pandemic.⁷¹

Impact on TRADOC Training

On 13 March 2020, the first training cancellation occurred at Fort Eustis, VA. It was the 10K Ruck and Run event scheduled for 14 March 2020. 14 March 2020 was also the date of the first HQDA-promulgated travel restrictions, the impact of which was to essentially shut down Combined/Joint Exercise Defender 2020. Coincidentally, 14 March 2020 was also the date of the first reported death from COVID-19 in Virginia, specifically in Newport News (a community adjacent to HQ TRADOC at Fort Eustis). On 15 March 2020, the CDC recommended gatherings be limited to 50 people. On 17 March 2020, Fort Eustis went to HPCON Bravo, for the first time ever, effective 1030 EST. That same day HQDA issued its first “Halt Movement” orders. The HQDA order forced a pause in shipping personnel from Military Entrance Processing Stations (MEPS) to the various Army Training Centers (ATCs), as well as from the ATCs to Advanced Individual Training (AIT) sites, and AIT to First Unit of Assignment (FUA). Then 18 March 2020 was the date of the first known COVID-19 infection on Fort Eustis, VA. Then on 20 March 2020, Fort Eustis went to HPCON C. By 23 March 2020, TRADOC promulgated reporting requirements for quarantine, etc., and was working the problem concerning solutions to transportation. But by 31 March 2020, troops were, in fact, moving onward from MEPS to ATCs, from BCT to AIT, and from AIT to FUA. In short, TRADOC only required two weeks to figure out how to manage the risk and continue training safely and effectively. TRADOC methods of safe and secure transportation were copied by all the other Armed Services, as well as various sports endeavors such as the National Basketball Association (NBA), National Football League (NFL), National Hockey League (NHL), etc. GEN Paul E. Funk II emphasized that, to beat the virus, TRADOC needed to treat the disease as though we were “at war” with it. In his own words: “What I meant by that remark was actually that we need to get on a wartime footing. We’re going to need daily reporting. We’re going to need to analyze the battlefield which became the actual COVID environment. We’ve got to start looking at our resources. We’ve got to manage shortages and make command decisions about where we’re putting resources. We’ve got to do focus of fires—both lethal and non-lethal fires. Lethal being, in this case, how do you kill this disease? And then the non-lethal piece is the information environment.”⁷²

The Recruiting Crisis

While recruiting efforts have had good and bad years—often influenced by American economic conditions—dating back to at least the tenure of GEN Townsend, there was a persistent problem with Army recruiting efforts and failure to make quota in that mission area. This problem was exacerbated by the overall response to the COVID-19 pandemic, and the restrictions placed on in-person contact. Recruiters began to act innovatively, using social media (including online gaming venues) to reach out and contact potential recruits. In late 2022 to early 2023, additional HQDA-approved efforts included the Soldier Referral Program; Recruiter Production Incentive (RPI); Assignment Incentive Pay (AIP) Pilot; and the Army Recruiting Ribbon (ARR). Despite progress, the recruiting enterprise required modernization, including leveraging digital tools, expanding the recruiting pool, and improving recruiter training. After the Army still missed its recruitment goals in both 2022 and 2023, the service studied the problem and in 2024 established an expanded US Army Recruiting Command (USAREC) that included the traditional junior-enlisted recruiting duties, the US Army Cadet Command for officer accessions and education, and other related activities. By 2025, the Army was again reaching its annual recruitment goals, in large part due to TRADOC's innovative Future Soldier Preparatory Course.

Future Soldier Preparatory Course

The Future Soldier Preparatory Course (FSPC) was initiated in August 2022 at Fort Jackson, SC, and expanded in March 2024 to Fort Benning, GA to prepare aspiring recruits for Basic Combat Training. There were two tracks: one for those who are deficient on their Armed Services Vocational Aptitude Battery (ASVAB) scores—especially those affected in high school by closing most schools for an extended period as part of the response to the COVID-19 pandemic—and a second for candidates who did not initially meet physical fitness standards. Through the Basic Skills Education Program (BSEP), recruit candidates could learn necessary matters and retest on the ASVAB. Recruits also have been taught Holistic Health and Fitness (H2F) and its five domains of physical, nutritional, mental, spiritual, and sleep. By deliberately working on keeping themselves fit by H2F principles, ninety-five percent of those who entered the

FSPC later qualified to enter Active Duty. The program was so successful that in less than 18 months, the Army had already made plans to expand the program to other Army Training Centers. The program's scalability and adaptability were key to its success. By mid-2025, the FSPC graduated more than 42,000 recruits, successfully mitigating their academic and fitness deficiencies while maintaining Army standards.⁷³

The Army People Strategy

In October 2019, the Army rolled out the (FY) 2020 Army People Strategy, which holistically embraced and sought to bring together as one the Service's soldiers, families, civilians, and retirees and veterans collectively as its most valuable resource. The Army delegated responsibility for implementation of the strategy to TRADOC. Michael D. Formica, the first tier-3 executive deputy to the commanding general (EDCG), TRADOC, introduced the Civilian Implementation Plan in November 2022 to further advance the integration, development, advancement, and well-being of TRADOC's civilian professionals. The strategy's goals were to optimize the acquisition, development, employment, and retention of the Army civilian workforce.⁷⁴

Transformation: Establishment of Army Futures Command

After unsuccessfully fielding the Future Combat System by 2009 to bring new units and materiel into the force, the Army implemented several organizational changes. These included establishing a new Army Command—the US Army Futures Command (AFC) in 2018—to assist the service's transition back to more conventional combined-arms warfare by focusing on the combat developments process for such service-wide priorities as air and missile defense, the next-generation combat vehicle, long-range precision fires, Unmanned Aircraft System (UAS) drones on the battlefield, and Artificial Intelligence (AI)-enabled command and control. To do so, the Army realigned TRADOC's Army Capabilities Integration Center (ARCIC) to AFC.

Transformation in Contact

Starting in 2024, the Army's new Transformation in Contact (TiC) initiative focused on rapid modernization of the force in response to the accelerated pace of technological change, altering the character of war on

current battlefields worldwide. TiC was CSA Randy George's guidance to get innovation, equipment, TTPs, and new materiel in the hands of troops quickly. TRADOC had to become even more adaptive, responsive, and efficient in relation to the speed of change. Within the institutional army, this meant capturing lessons learned and adopting them rapidly into training and doctrine. CALL developed the Quick-Fire Observation Portal as a readily accessible method to upload, share, and discuss lessons observed during operations and training. TRADOC updated a huge proportion—upwards of 85%—of Army doctrine within a couple years, also incorporating observations from the current battlefield in Ukraine. For instance, Field Manual (FM) 3-0, *Operations*, went through new editions in 2017, 2022, and 2025. TRADOC also implemented a Sustainable Strategic Path line of effort to provide an informed common operating picture, and the ability to see itself and influence decision-making at DA. The Sustainable Strategic Path involved systems to improve visibility into resources, personnel, and decision-making processes. This effort enhanced the command's ability to manage risks and align with Army priorities.

Army Transformation Initiative (ATI) and the Creation of Transformation and Training Command (T2COM)

With the new Trump administration in place in early 2025, SECDEF Pete Hegseth, SECARMY Daniel Driscoll, and CSA George issued direction in late April and early May 2025 to incorporate TiC into the newly established Army Transformation Initiative (ATI). Among other actions, ATI directed the deactivation of both TRADOC and AFC and the merger of the former into the latter, along with other Army activities, to form the US Army Transformation and Training Command (T2COM) on 1 October 2025. T2COM would encompass much of the institutional Army within an ACOM that would streamline the service's organizational structure and align force generation, force design, and force development under one four-star command as a matter of strategic reorientation of the total force.

The merger of TRADOC and AFC to form T2COM represents one of the most significant transformations in the Army's history. TRADOC's legacy as the institution where Victory started will contribute immensely to the future success of T2COM's path from Vision to Victory.

Notes

1. Jean R. Moenk, *OPERATION STEADFAST Historical Summary: A History of the Reorganization of the US Continental Army Command (1972–1973)*, (Historical Office, Headquarters, US Army Forces Command, Fort McPherson, GA, 1974).

2. John D’Angelo, “The Future of Armed Conflict—Lt. General McMaster,” *Reiff Center Blog*, 22 October 2014.

3. “Future Combat Systems (FCS),” GlobalSecurity.Org, n.d.

4. Robert (Bob) P. Reddy, exit interviews by Del Stewart, 10 and 29 June 2016, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA.

5. Josh White, “4-Star General Relieved of Duty,” *Washington Post*, 10 August 2005, <http://www.washingtonpost.com/wp-dyn/content/article/2005/08/09/AR2005080900515.html>.

6. Full Spectrum Operations is an outdated term; was replaced with Unified Land Operations. US Army Combined Arms Center, “Army Doctrine Update 2-12,” *Combined Arms Doctrine Directorate*, 3 April 2012.

7. US Army Combined Arms Center, “Doctrine 2015 Information Briefing,” *Military Review*, 27 October 2011, 46–52.

8. US Army TRADOC, TRADOC Priorities, 1 December 2016.

9. US Army TRADOC, TRADOC Pamphlets.

10. Association of the US Army (AUSA), “Multi-Domain Task Forces: A Glimpse at the Army of 2035,” 2 March 2022, <https://www.ausa.org/publications/multi-domain-task-forces-glimpse-army-2035>.

11. GEN Stephen J. Townsend, Oral History Interview, conducted by Dr. J. Britt McCarley, 31 May 2019 and 5 June 2019, Fort Eustis, VA.

12. GEN Paul E. Funk II, Oral History Interview, conducted by Dr. J. Britt McCarley, 11 August 2020, Fort Eustis, VA. The TRADOC Military History & Heritage Office (TMHOO) historians interviewed more than 35 personnel working in G-3/5/7 Plans, Readiness, and Training, who provided this information. William M. Donnelly and Jamie L. H. Goodall, eds., *The United States Army and the COVID–19 Pandemic: January 2020–July 2021* (Washington, DC: US Army Center of Military History, 2021).

13. Information obtained from the Office of the TRADOC Command Sergeant Major, Building 950, Fort Eustis, VA.

14. “The John F. LaVoie Papers, 1973–1977,” US Army Heritage and Education Center, Carlisle Barracks, Carlisle, PA.

15. In 1947, an NCO Academy was established by the Constabulary Brigade, Sonthofen, West Germany; it closed in 1948. In 1949, a second NCO Academy was established in Jensen Barracks, Munich, West Germany. On 1 November 1951, this became the 7th Army NCO Academy. In October 1958, the NCO Academy relocated to Bad Tolz, West Germany. On 4 September 1990, the Academy relocated to the Grafenwoehr Training Area (GTA).

16. “Obituary, John Francis LaVoie,” Legacy.com, 23 January 2014, <https://www.legacy.com/us/obituaries/wickedlocal-gloucester/name/john-lavoie-obituary?id=21124990>.

17. Lynn McMillen, “James B. “Jim” Craft Obituary,” *Quad Cities Daily*, 27 June 2013, <https://quadcitiesdaily.com/james-b-jim-craft-obituary/>.

18. TRADOC CSM (R) William J.H. Peters, interview by Del Stewart, 12 September 2017, official transcript, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA.

19. “OPERATION ABLE SENTRY,” *GlobalSecurity.org*, n.d.

20. TRADOC CSM (R) James McKinney, email to Del Stewart, 12 August 2017.

21. TRADOC CSM (R) Anthony J. Williams, email to Del Stewart, 12 August 2017.

22. “CSM John D. Sparks, US Army Training and Doctrine Command,” US Army Sergeant’s Major Academy, n.d.

23. Greg Grant, “It’s Official: FCS Cancelled,” *DODBuzz.com*, 23 June 2009.

24. TRADOC CSM Daniel A. Dailey, exit interview by Del Stewart, 18 December 2014, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA.

25. CSM David Shannon Davenport, interview with Del Stewart, 29 April 2016 and 17 November 2016, official transcripts, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA.

26. Robert R. Palmer, *Reorganization of Ground Troops for Combat*, Study no. 8, Historical Section–Army Ground Forces, 1946.

27. R. Cody Phillips, *OPERATION JOINT GUARDIAN: The US Army in Kosovo* (Washington, DC: US Army Center of Military History, 2007).

28. *The Army Modular Force*, US Army, n.d., https://www.army.mil/aps/06/maindocument/print/Text_addendum_D.html.

29. *Force 2025 and Beyond: Unified Land Operations: Win in a Complex World*, ARCIC (Washington, DC: US Army TRADOC, October 2014).

30. Jeremy Bender, "If Russia Started a War in the Baltics, NATO Would Lose in 36 Hours," *Business Insider*, 4 February 2016, <http://www.businessinsider.com/russia-could-steamroll-into-the-capitals-of-natos-most-exposed-members-in-36-hours-2016-2>; David A. Shlapak and Michael Johnson, *Reinforcing Deterrence on NATO's Eastern Flank*, RAND Corporation, 2016; Phillip Karber and Joshua Thibeault, "Russia's New-Generation Warfare," Association of the United States Army, 20 May 2016 (article discusses the study, but the study itself is classified); Michael "Mike" K. Redman, *Multi-Domain Battle: Combined Arms for the 21st Century*, ARCIC, 24 February 2017; and Benjamin King, *Victory Starts Here! A Short 40-Year History of TRADOC* (Fort Leavenworth, KS: Combat Studies Institute Press, 2013), 56.

31. JS J8, *Joint Cooperative Target Identification-Ground Analysis of Alternatives* (Norfolk, VA: USJFCOM, 15 July 2011); and James Miller, "IFF and Mode 5: Past, Present and Future," *Teleinstrument.com*, 2018, <https://www.telinstrument.com/avionics-news/industry-articles/101-iff-and-mode-5-past-present-and-future.html>.

32. Ethan Sterenfeld, "Army capability managers move to Futures Command from TRADOC," *Inside Defense*, 19 January 2022, <https://insidedefense.com/daily-news/army-capability-managers-move-futures-command-tradoc>.

33. John B. Wilson, *Maneuver and Firepower: The Evolution of Divisions and Separate Brigades* (Washington, DC: US Army Center of Military History, 1998), 266.

34. Lewis Sorley, ed. *Press On! Selected Works of General Donn A. Starry*, vol. 1, (Fort Leavenworth, KS: Combat Studies Institute Press, 2009), 31–732. Fighting outnumbered and winning was a thematic concern throughout this work, starting on page 31.

35. Ben King, *TRADOC Annual Command History 1995–1996* (Fort Eustis, VA: TRADOC Military History and Heritage Office, 1996).

36. Antulio Echevarria and Huba Wass de Czege, "Insights for a Power-Projection Army," *Military Review*, May–June 2000, 9–16.

37. Ben King, *TRADOC Annual Command History 1999–2000*, (Fort Eustis, VA: TRADOC Military History and Heritage Office, 2000).

38. TRADOC Staff Directory, May 2000.

39. *Capstone Concept for Joint Operations: Joint Force 2020* (Washington, DC: Government Printing Office, 20 September 2012).

40. Headquarters, TRADOC, “The US Army Operating Concept: Win in a Complex World 2020–2040,” Pamphlet 525-3-1, 31 October 2014.

41. Headquarters, Department of the Navy, *The Marine Corps Operating Concept: How an Expeditionary Force Operates in the 21st Century* (Washington, DC: Government Printing Office, September 2016).

42. GEN David G. Perkins, “Multi-Domain Battle: The Advent of Twenty-First Century War,” *Military Review*, November–December 2017, 8–13, <https://www.armyupress.army.mil/Journals/Military-Review/English-Edition-Archives/November-December-2017/Multi-Domain-Battle-The-Advent-of-Twenty-First-Century-War/>; “Preparing for the Fight Tonight: Multi-Domain Battle and Field Manual 3-0,” *Military Review*, September–October 2017, 6-13, <https://www.armyupress.army.mil/Journals/Military-Review/English-Edition-Archives/September-October-2017/Perkins-II-Preparing-for-the-Fight-Tonight/>; “Multi-Domain Battle: Driving Change to Win in the Future,” *Military Review*, July–August 2017, 6–12, <http://www.armyupress.army.mil/Journals/Military-Review/English-Edition-Archives/July-August-2017/Perkins-Multi-Domain-Battle/>; and TRADOC CG GEN David G. Perkins, interview by Dr. J. Britt McCarley, 5 August 2017, transcript, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA.

43. Jeremy Bender, “Russia Thinks its Monstrous New Super-Tank can Resist just about all of NATO’s Anti-Tank Weapons,” *Business Insider*, 24 June 2015), <http://www.businessinsider.com/russias-new-tank-can-resist-nato-anti-tank-weapons-2015-6>.

44. “T-14 Armata Main Battle Tank,” *Army Recognition*, 30 April 2017; and OE Watch, “Russia Considers Standardized Chassis for Most Tracked Vehicles,” Foreign Military Studies Office, Fort Leavenworth, KS, March 2015, 51–53.

45. Kevin Benson, “Extending the Second Offset and Multi-Domain Battle,” *The Strategy Bridge*, 29 November 2016, <https://thestategy-bridge.org/the-bridge/2016/11/29/extending-the-second-offset-and-multi-domain-battle>.

46. “Multi-Domain Battle: Ensuring Joint Force Freedom of Action,” US Army TRADOC, 30 November 2016, video, <https://www.youtube.com/watch?v=z6gWtH7b6KE>.

47. “M1 Abrams,” *Tank Encyclopedia*, 31 December 2014, http://www.tanks-encyclopedia.com/coldwar/US/M1_Abrams.php.

48. “Secretary of Defense Speech: Association of the United States Army (AUSA), as delivered by Secretary of Defense Chuck Hagel,” US Department of Defense, Washington, DC, 15 October 2014.

49. Eric Lindsey, “Beyond Coast Artillery: Cross-Domain Denial and the Army,” Center for Strategic and Budgetary Assessments, 29 October 2014, <http://csbaonline.org/research/publications/beyond-coast-artillery-cross-domain-denial-and-the-army>.

50. LTG Paul M. Nakasone and MAJ Charlie Lewis, “Cyberspace in Multi-Domain Battle,” *The Cyber Defense Review*, 30 March 2017, https://cyberdefensereview.army.mil/portals/6/documents/multidomain-battlespace_nakasone_lewis.pdf?ver=2017-03-30-223558-870.

51. TRADOC Pam 525-3-1, “The U.S. Army in Multi-Domain Operations,” 6 December 2018, <https://adminpubs.tradoc.army.mil/pamphlets/TP525-3-1.pdf>.

52. Combined Arms Center, “Strategy and Tactics for Learning: The Papers of General Paul F. Gorman, USA (Ret),” <https://cgsc.contentdm.oclc.org/digital/collection/p16040coll10>.

53. PEO STRI, “Instrumentable-Multiple Integrated Laser Engagement System (I-MILES),” accessed 24 January 2023; and US Army Acquisition Support Center, “Instrumentable-Multiple Integrated Laser Engagement System (I-MILES),” accessed 24 January 2023.

54. TRADOC Pamphlets 350-70-4, dated 12 January 2004; 350-70-5, dated 20 August 2004; and 350-70-6, dated 7 September 2004, respectively, 13 November 2017.

55. MG Anthony C. Funkhouser, exit interview with Del Stewart, 5 July 2017, official transcript. TRADOC Military History and Heritage Office Collection, Fort Eustis, VA; and Whitfield B. East, *A Historical Review and Analysis of Army Physical Readiness Training and Assessment* (Fort Leavenworth, KS: Combat Studies Institute Press, 2013).

56. Mark Thompson, “America: Meet Your First Female Rangers,” *Time*, 20 August 2015, <http://time.com/4005578/female-army-rangers/>.

57. Lori Tagg, “US Army Intelligence School at Fort Devens Closes, Leads to Construction Boom at Fort Huachuca,” *US Army*, 27 May 2014, <https://www.army.mil/article/126746/>.

58. Army Management Staff College, “About AMSC: History and Expertise,” 9 January 2023, <https://armyuniversity.edu/amsc/HistoryExpertise>.

59. US Army Posture Statement, *Information Papers: Army Evaluation Task Force (AETF)*, 26 February 2008, https://www.army.mil/aps/08/information_papers/transform/Army_Evaluation_Task_Force.html.

60. Del Stewart, *TRADOC Annual Command History 2016* (Fort Eustis, VA: TRADOC Military History and Heritage Office, 2017). See supporting file from Brigade Modernization Command Semi-Annual History Report, 1 July through 31 December 2016.

61. Devon L. Suits, “Network Evaluation Modernizes Tactical Network Capabilities, Provides Crucial Feedback,” TRADOC News Center, 2 August 2017.

62. Memorandum for DCG Initial Military Training CoE, “Subject: Request for Redesignation of Initial Military Training Center of Excellence (IMT CoE) as Initial Military Training Center,” 13 March 2014.

63. MG Ross E. Ridge, exit interview with Del Stewart, 27 April 2015, official transcript, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA.

64. Combined Arms Center, “Doctrine Update, 2-12,” 3 April 2012.

65. See *TRADOC Annual Command History 2014* (Fort Eustis, VA: TRADOC Military History and Heritage Office, 2014) and *TRADOC Annual Command History 2015* (Fort Eustis, VA: TRADOC Military History and Heritage Office, 2015).

66. BG John D. Kline, Memorandum for Record, “Subject: Roles and Responsibilities of Deputy Commanding General, U.S. Army Center for Initial Military Training (CIMT),” 13 June 2022.

67. LTC “Bill” Jakola, *Asymmetric Warfare Group, January to December 2015, Historical Review*, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA. See also Information Paper, “Subject: Asymmetric Warfare Group (AWG) History,” 23 April 2013, TRADOC Military History and Heritage Office Collection.

68. “AWG Color Casing Ceremony,” Defense Visual Information Distribution Service, 13 March 2021, <https://www.dvidshub.net/image/6650276/>.

69. See TRADOC ACH 2016.

70. See TRADOC ACH 2015.

71. Centers for Disease Control and Prevention (hereafter CDC), “Outbreak of Pneumonia of Unknown Etiology (PUE) in Wuhan, China,” *Health Alert Network* (hereafter *HAN*), 8 January 2020; Derrick Bryson Taylor, “A Timeline of the Coronavirus Pandemic,” *New York Times*, 2 April 2020, <https://www.nytimes.com/article/coronavirus-timeline.html>; CDC, “Update and Interim Guidance on Outbreak of 2019 Novel Coronavirus (2019-nCoV) in Wuhan, China,” *HAN*, 17 January 2020; “China Confirms Human-to-Human Transmission of Coronavirus,” *The Guardian*, 20 January 2020; CDC, “Update and Interim Guidance on Outbreak of 2019 Novel Coronavirus (2019-nCoV),” *HAN*, 1 February 2020; Headquarters Department of the Army Deputy Chief of Staff G-1 promulgated All Army Activities (ALARACT) message 007/2020, “Subject: Emerging Infectious Disease Novel Coronavirus,” message noted the WHO, CDC, and Military Health System (MHS) were all “closely monitoring the ongoing outbreak of 2019 Novel Coronavirus (2019-nCoV); “TRADOC COVID-19 Running Estimate,” accessed 6 April 2020; and Department of Health and Human Services (hereafter DHHS), “Secretary Azar Declares Public Health Emergency for United States for 2019 Novel Coronavirus,” 31 January 2020. TRADOC promulgated FRAGO 1 to OPOD 20-006, in which the following new items appeared: Definitions of Terms; Health Protection Condition (HPCON) Alpha as the status; and guidance that if someone feels sick, stay home. Crisis Action Team (CAT) was stood up and worked on estimates on hospital bed availability and other key medical equipment ordered; cost estimate capture plan ordered; etc. Helen Branswell and Andrew Joseph, “WHO Declares the Coronavirus Outbreak a Pandemic,” *STAT*, 11 March 2020, <https://www.statnews.com/2020/03/11/who-declares-the-coronavirus-outbreak-a-pandemic/>; and “Coronavirus in Virginia: Map and Case Count,” *New York Times*, 6 April 2020, <https://www.nytimes.com/interactive/2020/us/virginia-coronavirus-cases.html>.

72. HQDA also promulgated FRAGO 8 to EXORD 144-20, Army Wide Preparedness and Response to Coronavirus (COVID-19) Outbreak. WSLs News 10, “Virginia Health Leaders Announce First Coronavirus Death Out of Newport News Area,” 14 March 2020, <https://www.wsls>.

com/news/local/2020/03/14/virginia-sees-11-new-cases-in-a-day-now-has-41-presumptive-positive-coronavirus-cases/; Kyle Rempfer, "Soldiers in Europe for Defender 2020 to Return Home Amid Pandemic," *Defense News*, 16 March 2020, <https://www.defensenews.com/news/your-army/2020/03/16/soldiers-in-europe-for-defender-2020-to-return-home-amid-pandemic-2/>; and Taylor, "A Timeline," *New York Times*. See also CDC, "Interim Guidance for Coronavirus Disease 2019 (COVID-19)," *HAN*, 15 March 2020; 1SG Clifford A. Hill Jr. email to (Distribution), "Subject: JBLE-Eustis COVID-19 Update #4 (As of 162100MAR20), Fort Eustis, VA," 17 March 2020, HQ TRADOC COVID-19 Documents; and HQDA G-1 promulgated ALARACT 026/2020 DTG: R 172052Z MAR 20, "Subject: Personnel Policy Guidance in Support of Army Wide Preparedness and Response to Coronavirus Disease (COVID) 19 Outbreak. The message used multiple references to include 10 US Code 12301, Reserve Components Generally. See also Memorandum, Secretary of Defense, "Subject: Travel Restrictions for DOD Components in Response to Coronavirus Disease 2019," 11 March 2020; Memorandum, Deputy Secretary of Defense, "Subject: Stop Movement for all Domestic Travel for DOD Components in Response to Coronavirus Disease 2019," 13 March 2020; "Joint Travel Regulations (JTR) Uniformed Service Members and DOD Civilian Employees," 13 March 2020; "Joint Base Langley-Eustis has 1 Coronavirus Positive Case," *Williamsburg Yorktown Daily*, 19 March 2020, <https://wydaily.com/local-news/2020/03/19/joint-base-langley-eustis-has-1-coronavirus-positive-case/>; 1SG Clifford A. Hill Jr. email to (Distribution), "Subject: JBLE-Eustis COVID-19 Installation Notification Message, Fort Eustis, VA," HQ TRADOC COVID-19 Documents; HQ TRADOC, FRAGORD 5 to ORDER 20-006, "TRADOC Preparedness and Response Support to Emerging Corona Virus 2019 (COVID-19), Fort Eustis, VA," March 2020, HQ TRADOC COVID-19 Documents; HQ TRADOC, FRAGORD 6 to ORDER 20-006, "TRADOC Preparedness and Response to Emerging Corona Virus 2019 (COVID-19), Fort Eustis, VA," March 2020, HQ TRADOC COVID-19 Documents; and HQ TRADOC, FRAGORD 12 to ORDER 20-006, "TRADOC Preparedness and Response to Emerging Corona Virus 2019 (COVID-19), Fort Eustis, VA," March 2020, HQ TRADOC COVID-19 Documents.

73. GEN Paul E. Funk II, Oral History Interviews, conducted by Dr. J. Britt McCarley, 11 August 2020, 16 February 2021, 13 August 2021, 23 February 2022, and 14 July 2022, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA; Steve Beynon, "Army Will Offer Promotions, New Medals for Some Soldiers Who Bring in

Recruits,” *Yahoo News*, 24 January 2023, <https://news.yahoo.com/army-offer-promotions-medals-soldiers-183930097.html>; Davis Winkie, “Promotions, ribbons established for Army recruiting referrals,” *Military Times*, 24 January 2023, <https://www.militarytimes.com/news/your-army/2023/01/24/promotions-ribbons-established-for-army-recruiting-referrals/>; The National Desk, “Army Faces Recruiting Challenges as Fewer Young People Meet Health Qualifications,” *Komo News*, 24 January 2023, <https://komonews.com/news/nation-world/army-faces-recruiting-challenges-as-fewer-young-people-meet-health-qualifications-future-soldier-preparatory-course-campus-reform-obesity-cdc-high-blood-pressure-cholesterol>; CSM Scott A. Beeson, Oral History Interviews, conducted by Del E. Stewart, 5 August 2021 and 1 December 2022, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA.

74. GEN Paul E. Funk II, Oral History Interviews, conducted by Dr. J. Britt McCarley, 23 January 2020, 11 August 2020, and 16 February 2021, TRADOC Military History and Heritage Office Collection, Fort Eustis, VA.

Appendix A

Glossary

AAC	US Army Accessions Command
ABCA	America, Britain, Canada, and Australia
ACA	Army Contracting Agency
ACFT	Army Combat Fitness Test
ACOM	Army Command
ACRA	Airlift, Concepts, and Requirements Agency
ADA	Air Defense Artillery
ADP	Army Doctrinal Publications
ADRP	Army Doctrine Reference Publications
AETF	Army Evaluation Task Force
AGF	Army Ground Forces
AHIP	Army Helicopter Improvement Program
AIT	advanced individual training
AJP	Allied Joint Publication
ALFA	Air-Land Forces Application Agency
ALMC	Army Logistics Management College
AMC	Army Materiel Command
AMSC	Army Management Staff College
ANCOG	Advanced Noncommissioned Officer Course
AoA	Analysis of Alternatives
AOE	Army of Excellence
APFT	Army Physical Fitness Test
APS	Army People Strategy
ARCIC	Army Capabilities Integration Center
ARFORGEN	Army Force Generation
ARNG	Army National Guard
ARRTC	Army Reserve Regional Training Center

ARTEP	Army Training and Evaluation Program
AT XXI	Army Training XXI
ATACMS	Army Tactical Missile System
ATC	Army Training Center
ATLDP	Army Training and Leader Development Panel
ATP	Army Techniques Publications; Army Training (context driven) Program; Allied Tactical Publication
AUSA	Association of the US Army
AWA	Army Warfighting Assessment (obsolete term), see JWA
AWE	advanced warfighting experiments
AWG	Asymmetric Warfare Group
BCC	Brigade Coordination Cell
BCT	basic combat training
BCT	Brigade Combat Team
BCTP	Battle Command Training Program
BMC	Brigade Modernization Command (obsolete term), see JMC
BNCOC	Basic Noncommissioned Officer Course
BOLC	Basic Officer Leader Course
BPC	Building Partner Capacity
BRAC	Base Realignment and Closure
BTID	Battlefield Target Identification Device
C2	command and control (obsolete term)
C3	command, control, and communications
C4I	command, control, communications, computers, and intelligence
CABP	Comprehensive Approach to Building Partnerships
CAC	Combined Arms Center
CADD	Combined Arms Doctrine Directorate
CALL	Center for Army Lessons Learned
CAPE	Center for the Army Profession and Ethic
CAPL	Center for the Army Profession and Leadership

CAS3	Combined Arms and Services Staff School
CASCOM	Combined Arms Support Command
CAT	Cohesion Assistance Team
CATT	Combined Arms Tactical Trainer
CBA	capabilities-based assessment
CBRS	Concepts-Based Requirements System
CDC	Combat Developments Command
CDEC	Combat Developments Experimentation Command
CDED	Concept Development and Experiment Directorate
CENTCOM	US Central Command
CGSC	Command and General Staff College
CID	Combat Identification
CINC	commander in chief
CLIC	Center for Low Intensity Conflict
CMTC	Combat Maneuver Training Center
COCOM	Combatant Command
CoE	Center of Excellence
COE	Contemporary Operating Environment
COIN	Counterinsurgency Operations
CONARC	Continental Army Command
CONUS	continental United States
CREW	Counter Radio-Controlled IED Electronic Warfare
CSA	Chief of Staff, Army
CSAF	Chief of Staff, Air Force
CSI	Combat Studies Institute
CSS	Combat Service Support (obsolete term)
CTC	Combat Training Center
DA	Department of the Army
DARPA	Defense Advanced Research Projects Agency
DCG	Deputy Commanding General

DCS	Deputy Chief of Staff
DCSC4	Deputy Chief of Staff for Command, Control, Communications, and Computers
DCSTE	Deputy Chief of Staff for Test and Evaluation
DIME	diplomatic, informational, military, and economic
DLP	Doctrinal Literature Program
DoD	Department of Defense
DOTLMS	doctrine, organization, training, leader development, materiel, and soldiers (an earlier model that evolved into DOTMLPF-P)
DOTMLPF-P	doctrine, organization, training, materiel, leadership and education, personnel, facilities, and policy
DRS	Division Restructuring Study
DRU	Direct Reporting Unit
ELSORV	Enhanced Logistic Off-Road Vehicle
EOD	Explosive Ordnance Disposal
EXFOR	Experimental Force
F2025B	Force 2025 and Beyond
FAMSIM	family of simulations
FAST	Future Army Schools Twenty-One
FCS	Future Combat System
FFID	Future Force Integration Directorate
FHIR	Fort Hood Independent Review
FM	field manual
FMSO	Foreign Military Studies Office
FORSCOM	US Army Forces Command
FSPC	Future Soldier Preparatory Course
FTX	Field Training Exercise
G1/4	(Personnel and Logistics)
G2	(Intelligence)
G3/5/7	(Operations, Plans, and Training)
G6	(Command, Control, Communications, and Computers)

G8	(Resource Management)
G9	(Concept Development, Experimentation, & Requirements Determination)
GHQ	General Headquarters
GPS	Global Positioning System
GWOT	Global War on Terrorism
H2F	Holistic Health and Fitness
HDTE	historical decision training exercise
HIMARS	High-Mobility Artillery Rocket System
HMMWV	High-Mobility Multi-Purpose Wheeled Vehicle
HPCON	Health Protection Condition
HRC	Human Resources Command
HTTB	High Technology Test Bed
IAPD	International Army Programs Directorate
IBCT	Interim Brigade Combat Team; later Infantry Brigade Combat Team
IDF	Israel Defense Forces
IED	improvised explosive device
IET	initial entry training
IFF	Identify Friend or Foe
IFOR	(Peace) Implementation Force; replaced by SFOR
IGPBS	Integrated Global Presence and Basing Strategy
ILE	Intermediate Level Education
IMA	Installation Management Agency
IMCOM	US Army Installation Management Command
IMT	Initial Military Training
INCOPD	Institute for Noncommissioned Officer Professional Development
IPT	Integrated Process Team
ISR	intelligence, surveillance, and reconnaissance
IT	Individual Training

IT-COP	Institutional Training-Common Operational Picture
JAAD	Joint and Allied Doctrine Division
JACD	Joint and Army Concepts Division
JAED	Joint and Army Experimentation Division
JAMSD	Joint and Army Modeling and Simulation Division
JCS	Joint Chiefs of Staff
JCTI-G	Joint Cooperative Target Identification-Ground
JFCOM	US Joint Forces Command
JICD	Joint Interdependency Coordination Division
JMC	US Army Joint Modernization Command
JNTC	Joint National Training Capability
JP	joint publication
JRTC	Joint Readiness Training Center
J-SAK	Joint Attack of the Second Echelon
J-SEAD	joint suppression of enemy air defense
JSTARS	Joint Surveillance and Target Acquisition Radar System
JWA	Joint Warfighting Assessment
LAM	Louisiana Maneuvers
LAV	light armored vehicle
LIC	low intensity conflict
LOE	Line of Effort
MACOM	major command
MANSCEN	Maneuver Support Center
MASSTER	Modern Army Selected Systems Test Evaluation and Review
MCA	Mobility Concepts Agency
MDB	Multi-Domain Battle
MEPS	Military Entrance Processing Station
MHEP	Military History Education Program
MILES	Multiple Integrated Laser Engagement System
MLRS	Multiple Launch Rocket System

MOA	Memorandum of Agreement
MOS	military occupational specialty
MOU	Memorandum of Understanding
MOUT	military operations in urban terrain
MRAP	Mine-Resistant Ambush Protected
MTOE	Modification Table of Organization and Equipment
NATO	North Atlantic Treaty Organization
NBC	nuclear, biological, and chemical
NCO	Noncommissioned Officer
NCOES	Noncommissioned Officer Education System
NDAA	National Defense Authorization Act
NETCOM	Network Enterprise Technology Command
NIE	Network Integration Evaluation
NTC	National Training Center
O&O	organization and operations
OASS	One Army School System
OCAFF	Office of the Chief of Army Field Forces
OCS	Officer Candidate School
OE	Operational Environment
OES	Officer Education System
OLC	Oak Leaf Cluster
OMEMS	Ordnance Munitions and Electronics Maintenance School
OMMS	Ordnance Mechanical Maintenance School
OOTW	operations other than war
OPCON	Operational Control
OPFOR	opposing force
OSUT	one-station unit training
PLDC	Primary Leadership Development Course
PME	Professional Military Education
POM	program objective memorandum

RBCI	radio-based combat identification
RDT&E	research, development, test, and evaluation
RETO	Review of Education and Training for Officers
RNGW	Russian New Generation Warfare
ROAD	Reorganization Objective, Army Divisions
ROMO	Range of Military Operations
ROTC	Reserve Officers' Training Corps
SAMS	School of Advanced Military Studies
SAT	Systems Approach to Training
SCOPEs	Squad Combat Operations Exercise, Simulated
SECARMY	Secretary of the Army
SECDEF	Secretary of Defense
SFOR	Stabilization Force; replaced IFOR
SIMNET	Simulation Network
SIMS	Systems Integration, Modeling, and Simulations
SOA	School of the Americas
SOF	special operations forces
SQT	skill qualification test
SSI	Soldier Support Institute
STEP	Select, Train, Educate, Promote
SWG	Seminar War Games
TAC	Tactical Air Command
TACS-AAGS	tactical air control system—Army air-ground system
TASS	Total Army School System
TBOC	Training Brain Operations Center
TCM	TRADOC Capability Manager
TDA	Table of Distribution and Allowances
TECOM	Test and Evaluation Command
TiMS	Traffic Integration Messaging System
TOE	table of organization and equipment

TRAC	TRADOC Analysis Center
TRADOC	US Army Training and Doctrine Command
TRISA	TRADOC Intelligence Support Activity
TSM	TRADOC System Managers (obsolete term), see TCM
TTP	tactics, techniques, and procedures
TUAV	tactical unmanned aerial vehicle
UA	Unit of Action
UAMBL	Unit of Action Maneuver Battle Lab
UAV	unmanned aerial vehicle
UE	Unit of Employment
UFMCS	University of Foreign Military and Cultural Studies
ULO	Unified Land Operations
USACC	US Army Cadet Command
USAF	US Air Force
USAID	US Agency for International Development
USAREC	US Army Recruiting Command
USAREUR	US Army, Europe
USATC	US Army Training Center
USMC	US Marine Corps
USN	US Navy
USSR	Union of Soviet Socialist Republics
VCSA	Vice Chief of Staff, Army
WAC	Women's Army Corps
WG	Working Group
WHINSEC	Western Hemisphere Institute for Security Cooperation
WOAC	Warrant Officer Advanced Course
WOCC	Warrant Officer Candidate Course

Appendix B

Additional Reading

Note: Current Army Army Doctrine Publications, Army Doctrine Reference Publications, and Field Manuals are available at <https://army-pubs.army.mil/>. Army University Press books and other publications are at <https://www.armyupress.army.mil/>.

Bronfeld, Saul. "Did TRADOC Outmanoeuvre the Manoeuvrists? A Comment." *War and Society* 27 (October 2008): 111–25. <https://www.tandfonline.com/doi/abs/10.1179/war.2008.27.2.111>.

———. "Fighting Outnumbered: The Impact of the Yom Kippur War on the US Army." *The Journal of Military History* 71 (April 2007): 465–98.

Brownlee, Colonel Romie L., and Brigadier General William J. Mullen III, interviewers. *Changing an Army: An Oral History of General William E. DePuy*, USA Retired. Carlisle Barracks, PA: US Military History Institute, and Washington, DC: US Army Center of Military History, 1988.

Cameron, Robert S. *Mobility, Shock, and Firepower: The Emergence of the US Army's Armor Branch, 1917–1945*. US Army Historical Series. Washington, DC: US Army Center of Military History, 2008.

———. *To Fight or Not to Fight? Organizational and Doctrinal Trends in Mounted Maneuver Reconnaissance from the Interwar Years to OPERATION IRAQI FREEDOM*. Fort Leavenworth, KS: Combat Studies Institute, Combined Arms Center, 2010.

Canedy, Susan, James T. Stensvaag, Anne W. Chapman, John L. Romjue, and Charles H. Cureton. *TRADOC Support to OPERATIONS DESERT SHIELD AND DESERT STORM: A Preliminary Study*. TRADOC Historical Study Series. Fort Monroe, VA: Office of the Command Historian, US Army Training and Doctrine Command, 1992.

Chapman, Anne W. *Mixed-Gender Training: The U.S. Army Experience, 1973–2004*. Fort Monroe, VA: US Army Training and Doctrine Command, 2008.

———. *The Army's Training Revolution, 1973–1990: An Overview*. TRADOC Historical Study Series. Fort Monroe, VA: Office of the Command Historian, US Army Training and Doctrine Command, and Washington, DC: US Army Center of Military History, 1994.

———. *The National Training Center Matures, 1985–1993*. TRADOC Historical Monograph Series. Fort Monroe, VA: Military History Office, US Army Training and Doctrine Command, 1997.

———. *The Origins and Development of the National Training Center, 1976–1984*. TRADOC Historical Monograph Series. Fort Monroe, VA: Office of the Command Historian, US Army Training and Doctrine Command, 1992.

Chapman, Anne W., Carol J. Lilly, and Benjamin King. *Transforming the Army: TRADOC's First Thirty Years, 1973–2003*. TRADOC Historical Study Series. Fort Monroe, VA: Military History Office, US Army Training and Doctrine Command, 2003.

Chapman, Anne W., Carol J. Lilly, John L. Romjue, and Susan Caneody. *Prepare the Army for War: A Historical Overview of the Army Training and Doctrine Command, 1973–1998*. TRADOC Historical Study Series. Fort Monroe, VA: Military History Office, US Army Training and Doctrine Command, 1998.

D'Angelo, John. "The Future of Armed Conflict—Lt. General McMaster." *Reiff Center*, 22 October 2014.

Dastrup, Boyd L. *Cedat Fortuna Peritis (Let Fortune Yield to Experience): A History of the Field Artillery School*. Fort Sill, OK: Field Artillery Branch Historian's Office, US Army Field Artillery School, 2011.

———. *Eyes and Ears: A History of Field Artillery Target Acquisition*. US Army Fires Center of Excellence Historical Monograph Series. Fort Sill, OK: Office of the Field Artillery Branch Historian, US Army Fires Center of Excellence and Fort Sill, 2008.

———. *Field Artillery: A History and Sourcebook*. Westport, CT: Greenwood Press, 1995.

———. *King of Battle: A Branch History of the US Army's Field Artillery*. TRADOC Branch History Series. Fort Monroe, VA: Office of the Command Historian, US Army Training and Doctrine Command, and Washington, DC: US Army Center of Military History, 1993.

———. *Modernizing the King of Battle, 1973–1991*. US Army Field Artillery Center and School Historical Monograph Series. Fort Sill, OK: Office of the Command Historian, US Army Field Artillery Center and School, and Washington, DC: US Army Center of Military History, 2003.

———. *OPERATION DESERT STORM and Beyond: Modernizing the Field Artillery in the 1990s*. US Army Field Artillery Center and School Historical Monograph Series. Fort Sill, OK: Command Historian's Office, US Army Field Artillery Center and School, 2005.

Davis, Richard G. *The 31 Initiatives: A Study in Air Force–Army Cooperation*. Washington, DC: Office of Air Force History, US Air Force, 1987.

Doughty, Major Robert A. *The Evolution of US Army Tactical Doctrine, 1946–76*. Leavenworth Papers Number 1. Fort Leavenworth, KS: Combat Studies Institute, US Army Command and General Staff College, 1979.

East, Whitfield B. *A Historical Review and Analysis of Army Physical Readiness Training and Assessment*. Fort Leavenworth, KS: Combat Studies Institute, US Army Combined Arms Center, 2016.

Elder, Daniel K. *Educating Noncommissioned Officers: A Chronological Study on the Development of Educational Programs for US Army Noncommissioned Officers*. Chambersburg, PA: May 1999.

Gole, Henry G. *General William E. DePuy: Preparing the Army for Modern War*. Lexington, KY: University Press of Kentucky, 2008.

Griffith, Robert K. Jr. *The US Army's Transition to the All-Volunteer Force, 1968–1974*. Army Historical Series. Washington, DC: US Army Center of Military History, 1997.

Hamilton, John A. *Blazing Skies: Air Defense Artillery on Fort Bliss, Texas, 1940–2009*. Fort Bliss, TX: Air Defense Artillery Branch Historian's Office, Air Defense Artillery School, 2009.

Herbert, Major Paul H. *Deciding What Has to Be Done: General William E. DePuy and the 1976 Edition of FM 100-Operations*. Leavenworth Papers Number 16. Fort Leavenworth, KS: Combat Studies Institute, US Army Command and General Staff College, 1988.

King, Benjamin, *Victory Starts Here: A 35-Year History of the US Army Training and Doctrine Command*. Fort Leavenworth, KS: Combat Studies Institute, US Army Combined Arms Center, 2008.

———. *Victory Starts Here: A Short 40-Year History of the US Army Training and Doctrine Command*. Fort Leavenworth, KS: Combat Studies Institute, US Army Combined Arms Center, 2013.

King, Benjamin, Richard C. Biggs, and Eric R. Criner. *Spearhead of Logistics: A History of the US Army Transportation Corps*. Fort Eustis, VA: US Army Transportation Center, and Washington, DC: US Army Center of Military History, 2001.

Kretchik, Walter E. *US Army Doctrine: From the American Revolution to the War on Terror*. Lawrence, KS: University Press of Kansas, 2011.

Linn, Brian M. *The Echo of Battle: The Army's Way of War*. Cambridge, MA: Harvard University Press, 2007.

Lock-Pullan, Richard. "'An Inward Looking Time': The United States Army, 1973–1976." *The Journal of Military History* 67 (April 2003): 483–512.

Moenk, Jean R. *OPERATION STEADFAST Historical Summary: A History of the Reorganization of the US Continental Army Command (1972–1973)*. Fort McPherson, GA: Historical Office, Headquarters, US Army Forces Command, 1974.

Palmer, Robert R. *Reorganization of Ground Troops for Combat*, Study No. 8, Historical Section—Army Ground Forces. 1946.

Phillips, R. Cody. *OPERATION JOINT GUARDIAN: The US Army in Kosovo*. US Army Center of Military History, 2007.

Raines, Edgar F. Jr. *Eyes of the Artillery: The Origins of Modern US Army Aviation in World War II*. Army Historical Series. Washington, DC: US Army Center of Military History, 2000.

Raines, Rebecca R. *Getting the Message Through: A Branch History of the US Army Signal Corps*. Army Historical Series. Washington, DC: US Army Center of Military History, 1996.

Romjue, John L. *A History of Army 86, Volume I: Division 86: The Development of the Heavy Division, September 1978–October 1979*. TRADOC Historical Monograph Series. Fort Monroe, VA: Historical Office, US Army Training and Doctrine Command, 1982.

———. *A History of Army 86, Volume II: The Development of the Light Division, the Corps, and Echelons Above Corps, November 1979–December 1980*. TRADOC Historical Monograph Series. Fort Monroe, VA: Historical Office, US Army Training and Doctrine Command, 1982.

———. *American Army Doctrine for the Post-Cold War*. TRADOC Historical Monograph Series. Fort Monroe, VA: Military History Office, US Army Training and Doctrine Command, 1996.

———. *From Active Defense to AirLand Battle: The Development of Army Doctrine, 1973–1982*. TRADOC Historical Monograph Series. Fort Monroe, VA: Historical Office, US Army Training and Doctrine Command, 1984.

———. *The Army of Excellence: The Development of the 1980s Army*. TRADOC Historical Monograph Series. Fort Monroe, VA: Office of the Command Historian, US Army Training and Doctrine Command, and Washington, DC: US Army Center of Military History, 1997.

———. “The Evolution of American Army Doctrine,” in *The Origins of Contemporary Doctrine*, edited by John Gooch. Strategic and Combat Studies Institute Occasional Paper Number 30. Camberley, UK: Strategic and Combat Studies Institute, 1997.

Romjue, John L., Susan Canedy, and Anne W. Chapman. *Prepare the Army for War: A Historical Overview of the Army Training and Doctrine Command, 1973–1993*. TRADOC Historical Study Series. Fort Monroe, VA: Office of the Command Historian, US Army Training and Doctrine Command, 1993.

Sorley, Lewis. *Press On! Selected Works of General Donn A. Starry*. Two volumes. Fort Leavenworth, KS: Combat Studies Institute, US Army Combined Arms Center, 2009.

Staff of the Casemate Museum and the TRADOC Military History and Heritage Office, *Freedom's Fortress: A Pictorial Heritage of Fort Monroe*. Fort Monroe, VA: TRADOC Military History and Heritage Office, US Army Training and Doctrine Command, 2011.

Stewart, Del. *Victory Starts Here: A Short 45-Year History of the US Army Training and Doctrine Command*. Fort Leavenworth, KS: Combat Studies Institute Press, US Army Combined Arms Center, 2018.

Swain, Colonel Richard M., comp. Edited by Donald L. Gilmore and Carolyn D. Conway. *Selected Papers of General William E. DePuy: First Commander, US Army Training and Doctrine Command, 1 July 1973*. Fort Leavenworth, KS: Combat Studies Institute, US Army Command and General Staff College, 1993.

———. *Strategy and Tactics for Learning: The Papers of General Paul F. Gorman*. Fort Leavenworth, KS: Combat Studies Institute, US Army Combined Arms Center, 2012.

Trauschweizer, Ingo W. "Learning with an Ally: The US Army and the *Bundeswehr* in the Cold War." *The Journal of Military History* 72 (April 2008): 477–508.

———. *The Cold War US Army: Building Deterrence for Limited War*. Lawrence, KS: University Press of Kansas, 2008.

Weigley, Russell F. *History of the United States Army*. Enlarged edition. Bloomington, IN: Indiana University Press, 1984.

Weinert, Richard P. Jr. *A History of Army Aviation, 1950–1962*. TRADOC Historical Monograph Series. Fort Monroe, VA: Office of the Command Historian, US Army Training and Doctrine Command, 1991.

Williams, James W. *A History of Army Aviation: From Its Beginnings to the War on Terror*. Bloomington, IN: iUniverse, 2005.

Wilson, John B. *Maneuver and Firepower: The Evolution of Divisions and Separate Brigades*. Washington, DC: US Army Center of Military History, 1998.

Yarrison, James L. *The Modern Louisiana Maneuvers*. Washington, DC: US Army Center of Military History, 1999.



ARMY
UNIVERSITY
PRESS

THE VICTORY SEARS SHORTS HEROES 2-YEAR HISTORY OF THE US ARMY DOCTRINE AND TRAINING CORPS 1973-2025



An Army University Press Book
US Army Combined Arms Center
Fort Leavenworth, Kansas

This is the sixth and final edition of a short history of the US Army Training and Doctrine Command (TRADOC). Since its creation in 1973 during one of the most historically significant organizational reforms in US Army history, TRADOC has been the service's primary provider of concepts, doctrine, training, education, and future forecasts. TRADOC ended its storied era in Army history by: helping to bring the service out of the COVID-19 pandemic; ensure its ability to recruit and train the enlisted ranks in part through the innovative Future Soldier Preparatory Course; continue to educate agile and resilient Army leaders; develop post-Global War on Terror Multi-Domain Operations and Large-Scale Combat Operations doctrine for Great Power competition with the People's Republic of China and the Russian Federation; and prepare for an uncertain future through the Transformation in Contact and Army Transformation Initiative reform efforts that produced TRADOC's successor in 2025—the US Army Transformation and Training Command (T2COM).



ISBN 978-1-7372048-0-0



9 0000 >



9 781737 204800