

UNCLASSIFIED

## CAPABILITY GAP LIST

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I/ITSEC POC: Detachment 2 (booth #249)

Second Air Force  
Keesler AFB, MS 39534

## EXECUTIVE SUMMARY

The following list of capability gaps have been identified by our 5 Training Wings to pinpoint existing barriers to success of resources, processes, or skills, prioritize improvements, allocate resources, and develop targeted solutions that enhance overall efficiency and effectiveness, either through government or industry means.

In accordance with Air Force Policy Directive 10-6, *Capabilities Requirements Development*, the following definitions are applied for general understanding:

**Capability** — The ability to achieve a desired effect under specified standards and conditions through combinations of means and ways across the doctrine, organization, training, materiel, leadership and education, personnel, facilities and policy (DOTmLPF-P) to perform a set of tasks to execute a specified course of action.

**Capability Gaps** — The inability to execute a specified course of action. The gap may be the result of no existing capability, lack of proficiency or sufficiency in an existing capability solution, or the need to replace an existing capability solution to prevent a future gap.

**Materiel Solution** — Correction of a deficiency, satisfaction of a capability gap, or incorporation of new technology resulting in the development, acquisition, procurement, or fielding of a new item (including ships, tanks, self-propelled weapons, aircraft, and related software & data, spares, repair parts, and support equipment, but excluding real property, installations, and utilities) necessary to equip, operate, maintain, and support military activities without disruption as to its application for administrative or combat purposes. In the case of family of systems and system of systems approaches, an individual materiel solution may not fully satisfy a necessary capability gap on its own.

**Non-Materiel Solution** — Changes in doctrine, organization, training, materiel, leadership and education, personnel, facilities, or policy to satisfy identified functional capabilities. The materiel portion is restricted to commercial or non-developmental items that may be purchased commercially or by purchasing more systems from an existing materiel program. The acquisition of the materiel portion must comply with all acquisition policies.

Any questions or interest may be directed to the Second Air Force Plans and Requirements Directorate at [2AF.A5.89@us.af.mil](mailto:2AF.A5.89@us.af.mil) and Detachment 2 at [2AF.Det.2@us.af.mil](mailto:2AF.Det.2@us.af.mil).

NOTE: Additional capability gap analysis and prioritization will be conducted is ongoing to better understand the source issue and determine the best recommended way forward. Additionally, there is no guaranteed or dedicated funding associated with any of these efforts.

## INTEGRATED GAP LIST

Gap	<b>Competency Tracking &amp; Assessment</b>
Description	Lack of a digital method to assess and track competencies across different training environments. This results in subjective, inconsistent training, and difficulty analyzing training effectiveness for improvement.
User	2nd Air Force
Gap	<b>Controlled Unclassified Information/Impact Level 5 Cloud Service for Online Learning</b>
Description	Lack of standardized procedures for classifying Technical Orders into appropriate Impact Levels, leading to potential Controlled Unclassified Information spillage. Requires standardized Technical Orders classification, equipment specialist review, comprehensive training, remediation procedures, and Impact Level-aligned cloud spaces. Impacts Air Education and Training Command, Air Force Career Development Academy, and other Major Commands, hindering modernization of Intercontinental Ballistic Missile/Air-Launched Cruise Missile training.
User	82nd Training Wing
Gap	<b>Recall and Retention Learning</b>
Description	Limitations within Learning Management System including restricted access for foreign nationals, slow course update propagation (3-5 days), lack of immediate content visibility to current students, inability to host Secret Internet Protocol Routing Network content, limited accessibility options, and lack of student/course performance data analytics, including soft skills assessment.
User	81st Training Wing
Gap	<b>Offline Learning Capability</b>
Description	The Inter-American Air Forces Academy Learning Management System lacks offline student accessibility, hindering continuity of education during connectivity outages or field scenarios.
User	37th Training Wing
Gap	<b>Instructor Observation &amp; Equipment Protection for Outdoor Practical Training</b>
Description	Instructors lack effective observation tools for student safety and performance during outdoor practical activities. Environmental exposure shortens equipment lifespan and restricts training availability.
User	37th Training Wing
Gap	<b>Modernized Communications &amp; Networking Training Infrastructure</b>
Description	Due to outdated and insufficient equipment across key communications and networking training areas, impacting multiple courses and student competencies. Specifically, a lack of current Radio Frequency and Satellite Communications equipment – including L3Harris AN/PRC-117G, AN/PRC-160, AN/PRC-152 radios, a Blue-Sky antenna mast, and a Spectrum analyzer – hinders the ability to bridge the gap between theory and practical application for 17D students. Furthermore, existing Satellite Communications equipment is outdated and doesn't reflect current field systems, negatively impacting 3-level Career Field Education and Training Plan requirements. Compounding this issue, the networking equipment used for the Network Systems Operations course is outdated, creating a significant training bottleneck.
User	81st Training Wing
Gap	<b>Data-Driven Decision Making in the Digital Age</b>
Description	Many organizations aspire to be data-driven, making strategic and operational decisions based on insights derived from data; however, a significant capability gap in data literacy often hinders the effective adoption of data-driven decision making in the digital age. Currently, a significant portion of our workforce lacks the skills to accurately interpret data, critically evaluate its quality, and draw meaningful conclusions, leading to misinformed decisions and

missed opportunities. We estimate that this data literacy gap contributes to a 15% decrease in efficiency across our marketing and sales teams. While we recognize the importance of digital literacy, business intelligence infrastructure, Return on Investment focus, and culture, our immediate priority is to address the data literacy gap. We are seeking a partner to help us develop and implement a comprehensive data literacy training program that will empower our employees to make better, data-informed decisions and ultimately improve our business outcomes.

User

2nd Air Force

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Gap	<b>Environmentally Controlled Training</b>
Description	Inability to conduct training in an environmentally controlled setting within the Special Warfare Training Wing. Requires purchase and installation of sports domes (~120,000 sq ft per dome) over Tactical Air Control Party and Special Warfare Assessment and Selection tracks to mitigate heat casualties and improve training effectiveness.
User	Special Warfare Training Wing

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Gap	<b>Crisis Response Simulation</b>
Description	Lack of an Extended Reality system to fully replicate the complexity and unpredictability of real-world crisis situations in a safe training environment.
User	37th Training Wing

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Gap	<b>Course Capacity Modeling</b>
Description	Limited visibility into training course throughput and bottlenecks, hindering optimal student allocation and efficient use of instructional resources.
User	2nd Air Force

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Gap	<b>High Speed Wi-Fi Access for Students</b>
Description	Students require access to high-speed, unfiltered commercial Wi-Fi for homework, cultural studies, and gamified learning, which is currently unavailable on post.
User	17th Training Wing

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Gap	<b>Field Training Scheduling System Modernization</b>
Description	Field Training Scheduling System, a stovepipe solution, requires ongoing (and increasing) tech support while awaiting an enterprise-level replacement to streamline scheduling and integrate with Military Personnel Data System, Learning Management System, Education and Training Course Announcement, and other systems.
User	82nd Training Wing

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Gap	<b>Dorm Capacity Modeling</b>
Description	No automated tool to track real-time dorm capacity at a granular level, hindering optimization of training pipelines.
User	2nd Air Force

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Gap	<b>Cryptologic Language Analyst Lifecycle Data and Analysis</b>
Description	Limited access to Cryptologic Language Analyst performance data beyond initial training, hindering analysis of long-term performance and identification of improvement areas, especially with changes to the Cryptologic Language Analyst pathway (e.g., Defense Language Aptitude Battery removal).
User	17th Training Wing

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Gap	<b>Learning Connectivity</b>
Description	Current information systems do not support the most relevant existing or emerging instructional approaches and technologies due to limited connectivity, access, speed, and reliability. 2nd Air

User	Force lacks requisite support personnel to obtain difficult-to-acquire learning hardware and software designed for learner engagement. 2nd Air Force
Gap	<b>Weather Visualization Extended Reality</b>
Description	Transitioning from traditional weather training to Extended Reality training is needed to improve the effectiveness and efficiency of weather programs. Requires a Weather Training Complex Extended Reality to simulate conditions and provide real-time feedback. Need to increase Extended Reality headset capacity (from 6 to 12) and onboard the "multiplayer" feature to enhance atmospheric visualization training for 1W and 15W students.
User	81st Training Wing
Gap	<b>Top Secret, non-Joint Worldwide Intelligence Communications System Network for 532 TRS</b>
Description	No approved network exists for 532 TRS to support Top Secret-collateral training for Missileers.
User	82nd Training Wing
Gap	<b>Enlisted Initial Skill Programmed Technical Training Operations and Maintenance Cost Modeling</b>
Description	Lack of a standardized cost modeling tool to calculate Operations and Maintenance expenses for Enlisted Initial Skill training programs, hindering accurate budget forecasting and justification.
User	2nd Air Force
Gap	<b>Religious Affairs Counseling Training</b>
Description	Religious Affairs Airmen require enhanced counseling training, encompassing all faiths and sensitive scenarios (drug abuse, marital problems, suicide prevention). Current needs include Artificial Intelligence-based training programs or in-person training for 5R Airmen to meet Career Field Education and Training Plan tasks.
User	81st Training Wing
Gap	<b>Adaptive Learning Platform with AI</b>
Description	Air Force Career Development Academy lacks a predictive and adaptive learning platform with integrated Artificial Intelligence to generate content based on student performance. A platform is needed to transition to competency-based training plans by 2027, providing personalized learning paths, supervisor insights, and dynamic content adjustment (like Duolingo). The platform should also support commanders in identifying team competency gaps for mission-specific training.
User	2nd Air Force
Gap	<b>Aircraft Maintenance Officer Course Software</b>
Description	Lack of dedicated Aircraft Maintenance Officer Course software hinders the completion of 17 Course Training Standard elements and limits the ability to foster a student-centered, team-based learning environment. The software is crucial for practical application and Extended aircraft generation.
User	82nd Training Wing
Gap	<b>Classroom Technology for Joint Wargaming</b>
Description	Outdated classroom technology limits the effectiveness of joint wargaming exercises in Inter-American Air Forces Academy Professional Military Education courses, impacting security cooperation mission effectiveness. Requires updated projectors, interactive boards, and simulation tools.
User	37th Training Wing
Gap	<b>Extended Reality Development Network</b>
Description	Lack of an approved network for source-code level Extended Reality training development restricts capabilities. Current systems offer only surface-level development. Requires a

User	Department of Defense-owned network solution, potentially an advanced version of existing Extended Reality software. 82nd Training Wing
Gap	<b>Aerospace Ground Equipment Training Facility Repair</b>
Description	Dilapidated facilities hinder Aerospace Ground Equipment training. Requires repairs to address flood damage, heating, ventilation, and air conditioning issues, and structural deficiencies to support training for approximately 600 Airmen annually.
User	82nd Training Wing
Gap	<b>Structural Fire Burn Trainer Replacement</b>
Description	The existing structural fire burn trainer is 30 years old and in poor condition, posing safety risks and hindering the ability to meet national fire protection standards. Requires replacement to maintain training quality for 1,300 Department of Defense and International Fire Protection students annually.
User	17th Training Wing
Gap	<b>Air Traffic Control Student Devices &amp; Licenses</b>
Description	Increased student load in Air Traffic Control training requires additional tablets and licenses for existing phraseology training software to accommodate the increased student population.
User	81st Training Wing
Gap	<b>Automated Airmen in Training Data System</b>
Description	Requires an automated system to collect, synchronize, and track airmen in training status data with personnel data from diverse systems. System should include automatic event triggers, real-time trend analysis, and a centralized platform for process owners and managers.
User	81st Training Wing, 82nd Training Wing
Gap	<b>Extended Reality Classroom in a Box (Mobile/Secure)</b>
Description	Lack of a government-approved, secure, mobile, and synchronized extended reality capability limits Air Education and Training Command's ability to deploy real-world training for readiness.
User	17th Training Wing, 37th Training Wing
Gap	<b>Classroom Anywhere/Device Mobility Solution</b>
Description	Requires a Continuity of Operations Plan solution with a mobile power cart and increased network ports to ensure device connectivity during facility relocation or evacuation events.
User	81st Training Wing
Gap	<b>Operational Planning Training Classroom Expansion</b>
Description	Expansion of Deliberate and Crisis Action Planning and Execution Segments training requires three additional classrooms and instructor space. Requires outfitting a new building with necessary equipment and furniture.
User	81st Training Wing
Gap	<b>Insufficient Missile Maintenance Training Infrastructure</b>
Description	Aging facility infrastructures and connectivity are insufficient to support modern training technologies, impeding access to critical learning resources and collaborative environments.
User	82nd Training Wing

Gap	<b>Outdated Helicopter Maintenance</b>
Description	Current aircraft maintenance courses rely on outdated ground instructional training aircraft that don't reflect current HH-60W configurations. Ground instructional training aircraft lack adaptability for rapid course development and diverse learning styles. Needs updated trainers for HH-60G to HH-60W transition and training airframe requirements.
User	82nd Training Wing

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Gap	<b>Outdated Classrooms</b>
Description	Current classrooms lack flexibility, modernization, and technological tools, hindering the delivery of diverse, competency-based training.
User	82nd Training Wing

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Gap	<b>Static Missile Maintenance Training Limits Airmen Competency</b>
Description	Current missile maintenance courses utilize static, analog trainers that limit Airmen's ability to practice troubleshooting and achieve higher competency levels due to linear design and limited "sets and reps."
User	82nd Training Wing

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Gap	<b>Lack of Learning Management System (Learning Management System) at Inter-American Air Forces Academy</b>
Description	Inter-American Air Forces Academy lacks a centralized Learning Management System to manage and deliver course content for 30+ international student courses, resulting in inconsistent updates and limited access.
User	37th Training Wing

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Gap	<b>Ineffective Operational Training Feedback</b>
Description	Current feedback methods (surveys) have low participation rates, hindering the ability to align training with actual operational needs. Requires big data platforms and standardized knowledge, skills, and attributes tracking for data-driven feedback.
User	81st Training Wing

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Gap	<b>Lack of Safe Physical Training Facilities</b>
Description	Lack of adequate facilities for physical training, resulting in training delays and potential injuries. Requires a Multi-Use Outdoor Training Facility with a running track, turf field, canopy, and latrine/storage building.
User	37th Training Wing

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Gap	<b>Limited/Insufficient Building Air Conditioning and Chiller</b>
Description	Inadequate cooling system in Airman Training Complex 1 impacts student sleep and training performance. Seeking expedited upgrades to the environmental control system or funding for portable cooling solutions.
User	37th Training Wing

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Gap	<b>Battlespace Command and Control Training Equipment</b>
Description	Lack of equipment/facility capabilities for hands-on training in the 1C5 Specialty Training Standards related to Battlespace Command and Control Center.
User	81st Training Wing

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Gap	<b>Lack of Classroom Simulators for 1C3 Training</b>
Description	1C3 students lack classroom simulators for scenario-based training prior to capstone lab exercises. Simulators will mirror those in the lab and dorm study room to reduce capstone lab time and focus on high-washback areas.
User	81st Training Wing

Gap	<b>Minuteman III Trainer Obsolescence and Parts Shortages</b>
Description	Aging Minuteman III trainers and parts shortages are degrading training quality and realism at the 532 TRS. Seeking blended learning (computer-based training/extended reality) and support for the Air Force Nuclear Weapons Center Missile Procedures Trainer development.
User	82nd Training Wing

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Gap	<b>Technical Training Management System-Interactive Courseware Implementation Suite Shortcomings</b>
Description	Interactive Courseware Implementation Suite has numerous shortcomings (Controlled Unclassified Information marking, formatting errors, limited input fields, numbering errors) hindering efficient courseware development. Seeking an enterprise solution supporting competency-based and modular training.
User	82nd Training Wing