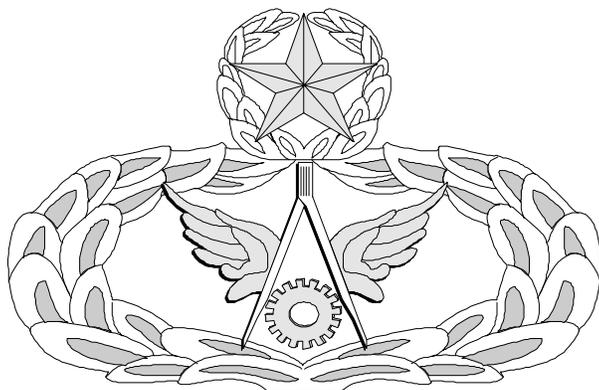


**DEPARTMENT OF THE AIR FORCE
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**CFETP 3E8X1
Parts I and II
1 August 03**

AFSC 3E8X1

EXPLOSIVE ORDNANCE DISPOSAL



**CAREER FIELD
EDUCATION AND TRAINING PLAN**

**CAREER FIELD EDUCATION AND TRAINING PLAN
EXPLOSIVE ORDNANCE DISPOSAL SPECIALTY
3E8X1**

Table of Contents

Preface	4
Abbreviations/Terms Explained	6
PART I	
Section A, General Information	10
Purpose	
Uses	
Coordination and Approval	
Section B - Career Field Progression and Information	12
Specialty Descriptions	
Skill/Career Progression	
Apprentice (3-Level)	
Journeyman (5-Level)	
Craftsman (7-Level)	
Superintendent (9-Level)	
Civil Engineer Manager	
Training Decisions	
Community College of the Air Force Academic Programs	
Career Field Path	
Section C - Skill Level Training Requirements	24
Purpose	
Specialty Qualification Requirements	
Apprentice (3-Level)	
Journeyman (5-Level)	
Craftsman (7-Level)	
Superintendent (9-Level)	
Section D - Resource Constraints	31
Purpose	
Training Constraints	
Section E - Transitional Training Guide	34

Part II

Section A -Specialty Training Standard..... 35
Implementation
Purpose
Recommendations
Qualitative Requirements

Section B - Course Objective List..... 55

Section C - Support Materials..... 56

Section D - Training Course Index..... 57

Section E - Major Command (MAJCOM) Unique Requirements..... 58

Section F - Home Station Training..... 59

Section G - EOD Standard Training Package..... 65

PREFACE

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training.

2. The CFETP consists of two parts used by supervisors to plan, manage, and control training within the career field.

2.1. **Part I** provides the information necessary for overall management of the specialty.

2.1.1. **Section A** provides general information about how the CFETP will be used.

2.1.2. **Section B** identifies career field progression information, duties and responsibilities, training strategies, and career field path.

2.1.3. **Section C** associates each skill level with specialty qualifications (knowledge, education, and training).

2.1.4. **Section D** indicates resource constraints.

2.1.5. **Section E** identifies transition guide requirements for SSgt through MSgt.

2.2. **Part II** includes the following:

2.2.1. **Section A** identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, wartime core tasks, and non-residence course requirements.

2.2.2. **Section B** contains the course objective list and training standards supervisors will use to determine if airman satisfy training requirements.

2.2.3. **Section C** identifies available support materials. Qualification Training Package (QTPs) and CerTests support both upgrade training (UGT) and qualification training. QTPs are indexed in AF Index (AFIND) 8, Numerical Index of Specialized Educational Training Publications.

2.2.4. **Section D** identifies a training course index supervisors can use to determine resources available to support training. Included here are both mandatory and optional courses, and exportable courseware.

2.2.5. **Section E** identifies the MAJCOM-unique requirements supervisors can use to determine additional training required for the associated qualification needs.

2.2.6. **Section F** identifies home station training references and course material required for this specialty in support of contingency/wartime training.

2.2.7. Section G identifies the Explosive Ordnance Disposal (EOD) Standard Training Package (STP) and prescribes the minimum recurring training requirements for all active duty EOD personnel assigned below wing level.

3. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their careers. This plan will enable us to train today's work force for tomorrow's jobs. At unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this guide.

ABBREVIATIONS/TERMS EXPLAINED

Advanced Distributive Learning (ADL). Anytime, anyplace learning within DoD consisting of instructional modules comprised of sharable content objectives in an Internet/Intranet environment.

Advanced Training (AT). A formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

Air Force Career Field Manager (AFCFM). An individual on the Air Staff charged with the responsibility for overseeing all training and career field management aspects of an Air Force specialty or group of specialties.

Air Force Job Qualification Standard/Command Job Qualification Standard (AFJQS/CJQS). A comprehensive task list which describes a particular job type or duty position. They are used by supervisors to document task qualifications. The tasks on AFJQS/CJQS are common to all persons serving in the described duty position.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive, multipurpose document encapsulating the entire spectrum of education and training for a career field. It outlines a logical growth plan that includes training resources and is designed to make career field training identifiable, to eliminate duplication, and to ensure this training is budget defensible.

Certification and Testing (CerTest). A multi-media evaluation program used to test an individual's knowledge of principles and procedures in their career field.

Commercial Off The Shelf (COTS). Commercially procured training products.

Computer Based Training (CBT). The use of computers to aid in the delivery and management of instructional material.

Continuation Training. Additional training exceeding requirements with emphasis on present and future duty assignments.

Core Task. A task Air Force Career Field Managers (AFCFMs) identified as a minimum qualification requirement within an Air Force specialty or duty position. These tasks exemplify the essence of the career field.

Course Objective List (COL). A publication, derived from initial/advanced skills course training standard, identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3-, 5-, and 7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2201, Developing, Managing, and Conducting Training.

Critical Task. Tasks that have been identified by the work center supervisor as having a detrimental effect on mission accomplishment if not performed correctly. Critical tasks may or may not be the

same as core tasks but are mandatory if identified as "critical" to the individual's position by the supervisor or work center.

Diamond Tasks (◆). Diamond tasks are extremely important to the career field. Diamond tasks are the same as core tasks with one exception--equipment shortfalls at most locations have created problems with the actual hands-on certification of these tasks. In instances where required equipment is not available for instruction, completion of the task's QTP and passing the corresponding CerTest (when available) is all that is required for upgrade and qualification training. Hands-on certification should be accomplished at the first opportunity when equipment is available.

Distance Learning (DL). Includes Video Teleseminar (VTS), Video Teletraining (VTT), and Computer-Based Training (CBT). Formal courses that a training wing or a contractor develops for export to a field location (in place of resident training) for trainees to complete without the onsite support of the formal school instructor. For instance, courses are offered by Air Force Institute of Technology, Air University, and Training Detachment.

Duty Position Task. The tasks assigned to an individual for the position currently held. These include as a minimum all core tasks, critical tasks, and any other tasks assigned by the supervisor.

Enlisted Specialty Training (EST). A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in each skill level of a specialty.

Exportable Training. Additional training via computer-assisted, paper text, interactive video, or other necessary means to supplement training.

Field Technical Training (Type 4). Special or regular on-site training conducted by a field training detachment (FTD) or by a mobile training team (MTT).

Initial Skills Training. AFS-specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Normally, this training is conducted by AETC at one of the technical training wings.

Instructional System Development (ISD). A deliberate and orderly, but flexible, process for planning, developing, implementing, and managing instructional systems. It ensures personnel are taught in a cost-efficient way the knowledge, skills, and attitudes essential for successful job performance.

Mission Ready Airmen (MRA) Training. Initial skills training allowing airmen to perform select tasks unsupervised equal to 3-levels with one year of experience.

Occupational Survey Report (OSR). A detailed report showing the results of an occupational survey of tasks performed within a particular AFS.

On-the-Job Training (OJT). Hands-on, over-the-shoulder training conducted to certify personnel in both upgrade (skill level award) and job qualification (duty position certification) training.

Optimal Training. The ideal combination of training settings resulting in the highest levels of proficiency on specified performance requirements within the minimum time possible.

Proficiency Training. Additional training, either in-residence, exportable advanced training courses, or on-the-job training provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade.

Qualification Training (QT). Actual hands-on task performance training designed to qualify an individual in a specific duty position. This portion of the dual channel on-the-job training program occurs both during and after the upgrade training process. It is designed to provide the performance skills required to do the job.

Qualification Training Package (QTP). An instructional package designed for use at the unit to qualify, or aid qualification, in a duty position or program, or on a piece of equipment. QTPs identify the Air Force's standardized method for performing the task. The QTP may be printed (paper-based), computer-based, or in other audiovisual media.

Readiness Training Package (RTP). Establishes standard levels of knowledge and proficiency for common Disaster Preparedness and Readiness subject areas by providing instructors with training references, materials, and lesson objectives used in teaching and evaluating the course subject matter.

Representative Sites. Typical organizational units having similar missions, weapon systems or equipment, or a set of jobs, used as a basis for estimating average training capacities and costs within the Training Impact Decision System (TIDES).

Resource Constraints. Resource deficiencies, such as money, facilities, time, manpower, or equipment that precludes desired training from being delivered.

Skills Training. A formal course resulting in the award of a skill level.

Specialty Training. A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in the award of a skill level.

Specialty Training Standard (STS). Describes skills and knowledge that airmen in a particular AFS need on the job. It further serves as a contract between the Air Education and Training Command (AETC) and the user to show the overall training requirements for an AFS taught in the resident and nonresident courses.

Spin-up Training. Training required just prior to a select deployment that delivers training necessary for mission accomplishment. It is typically predicated on hard to attain contingency skills.

Standard. An exact value, a physical entity, or an abstract concept, established and defined by authority, custom, or common consent to serve as a reference, model, or rule in measuring quantities or qualities, establishing practices or procedures, or evaluating results. A fixed quantity or quality.

Supplemental Training. Training for a portion of an AFS without a change in AFSC. Formal training on new equipment, methods, and technology that are not suited for on-the-job training.

Total Force. All collective Air Force components (active duty, Reserve, Guard, and civilian elements) of the United States Air Force.

Training Capacity. The capability of a training setting to provide training on specified requirements, based on the availability of resources.

Training Impact Decision System (TIDES). A computer-based decision support technology designed to assist Air Force career field managers (AFCFMs) in making critical judgments relevant to what training should be provided to personnel within career fields, when training should be provided (at what career points), and where training should be conducted (training setting). A TIDES template is used Air Force-wide for standardization and formatting of CFETPs.

Training Planning Team (TPT). Comprised of the same personnel as a U&TW, however TPTs are more intimately involved in training development and the range of issues is greater than is normal in the U&TW forum.

Training Requirements Analysis. A detailed analysis of tasks for a particular AFS to be included in the training decision process.

Upgrade training (UGT). Identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 5-, 7-, and 9-skill levels.

Utilization and Training Workshop (U&TW). A forum of the AFCFM, MAJCOM Functional Managers (MFMs), Subject Matter Experts (SMEs), and AETC training personnel that determine career ladder training requirements.

PART I

SECTION A - GENERAL INFORMATION

1. Purpose. This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, education and training managers, supervisors/trainer and certifiers to plan, develop, manage, and conduct an effective career field training program. This plan outlines the training individuals require to develop and progress throughout their careers. It identifies initial skills, upgrade, qualification, advanced, and proficiency training.

1.1. Initial skills training is the AFS-specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Normally, this training is conducted by AETC at one of the technical training wings.

1.2. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 5-, 7-, and 9-skill levels.

1.3. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge required to do the job.

1.4. Advanced training is a formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

1.5. Proficiency training is additional training, either in-residence, exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade.

2. The CFETP has several purposes:

2.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field training program. It is used to help supervisors identify training at the appropriate point in an individual's career.

2.2. Identifies task and knowledge training requirements for each skill level in the specialty and recommends education/training throughout each phase of an individual's career.

2.3. Lists training courses available in the specialty and identifies sources of training and training delivery methods.

2.4. Identifies major resource constraints which impact full implementation of the desired career field training process.

3. Uses. MFMs and supervisors will use the plan at all levels to ensure comprehensive and cohesive training programs are available for each individual in the specialty.

3.1. AETC training personnel will develop/revise formal resident, nonresident, field, and exportable training based on requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM, Air Force Civil Engineer Support Agency Training Division (HQ AFCESA/CEOF) to develop acquisition strategies for obtaining resources needed to provide the identified training.

3.2. MFMs will ensure their training programs complement CFETP mandatory initial, upgrade, and proficiency requirements and identify requirements that can be satisfied by OJT, resident training, contract training, CerTest, or exportable courses. MAJCOM-developed training to support this AFS must be identified for inclusion into the plan.

3.3. Unit Education and Training managers and supervisors must ensure each individual completes the mandatory training requirements (including MAJCOM supplemental requirements) for the upgrade training specified in this plan.

3.4. Each individual will complete the mandatory training requirements specified in this plan. The lists of courses in Part II will be used as a reference to support training.

4. Coordination and Approval. The AFCFM is the approval authority for the CFETP. MAJCOM representatives and AETC personnel will identify and coordinate on the career field training requirements. The AETC training manager for this specialty will initiate an annual review of this document by AETC and MFMs to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training.

SECTION B - CAREER FIELD PROGRESSION INFORMATION

5. Specialty Descriptions. Explosive Ordnance Disposal Apprentice, Journeyman, Craftsman, and Superintendent.

5.1. Specialty Summary. Detects, identifies, renders safe, recovers, and disposes of United States and foreign conventional, incendiary, chemical, biological, and nuclear ordnance. Renders safe and disposes of criminal/terrorist improvised explosive devices. Other duties include: supporting the United States Secret Service for the protection of the President, Vice President and other dignitaries; providing support to Federal, State and local law enforcement agencies concerning EOD matters when determined to be in the interest of public safety; supporting specialized Joint Service Task Force operations; instructing base and community members on ordnance recognition skills and improvised explosive device countermeasures; and providing the hazardous materials (HAZMAT) response capability for incidents involving explosive ordnance.

5.2. Duties and Responsibilities for Apprentice and Journeyman.

5.2.1. Performs explosive ordnance disposal functions.

5.2.1.1. Conducts area reconnaissance for detecting and identifying unexploded ordnance.

5.2.1.2. Determines distances to which personnel and material must be evacuated.

5.2.1.3. Photographs all unknown explosive ordnance for technical intelligence and reporting requirements.

5.2.1.4. Removes earth and debris surrounding unexploded ordnance, using mechanical tools, hand tools, and appropriate equipment.

5.2.1.5. Estimates depth of buried explosive ordnance by using probing techniques or detection equipment.

5.2.1.6. Performs constructing, sinking, and timbering of shafts for access to buried explosive ordnance and to protect personnel during recovery operations.

5.2.1.7. Performs necessary rendering safe procedures, using special tools and techniques, including remote controlled devices and shaped charges.

5.2.1.8. Removes safe explosive ordnance by using winches, pulleys, cables, or cranes.

5.2.1.9. Operates and interprets radiation and other detecting instruments in monitoring areas adjacent to unexploded ordnance suspected of containing toxic or radioactive contamination.

5.2.1.10. Neutralizes, leak seals, packages, and disposes of chemical and biological munitions.

5.2.1.11. Disposes of explosive ordnance rendered exceptionally hazardous by damage or deterioration.

5.2.1.12. Disposes of unserviceable explosives by thermal treatment.

5.2.1.13. Notifies authorities when areas are free of danger.

5.2.1.14. Secures explosive ordnance and equipment to vehicles and plans evacuation routes.

5.2.1.15. Prepares reports concerning explosive ordnance disposal activities.

5.2.1.16. Fabricates and uses explosive charges.

5.2.1.17. Neutralizes and disposes of improvised explosive devices.

5.2.2. Performs as a specialized member of the Base Emergency Response Force.

5.2.2.1. Provides guidance and advice to the On-scene Commander in detecting, monitoring, evaluating, and decontaminating radioactive, chemical, or biological hazards.

5.2.2.2. Safes, removes, and disposes of explosives, explosive devices, and explosive ordnance rendered hazardous due to accident or incident to include ejection and catapult devices, squibs, explosive bolts, warheads, bombs, rockets, guided missiles, guns, and gun ammunition.

5.2.2.3 Conducts explosive ordnance ancillary programs for disaster preparedness teams and other agencies.

5.2.3. Performs related munitions and weapons functions.

5.2.3.1. Performs functions relating to EOD munitions, weapons, or nuclear weapons activities as directed.

5.2.3.2. Maintains explosive ordnance publications and administrative publications libraries pertaining to explosive ordnance functions.

5.2.3.3. Inventories, stores, and maintains supplies, tools, and equipment relative to explosive ordnance disposal.

5.3. Duties and Responsibilities for EOD Craftsman.

5.3.1. Advises on EOD related problems.

5.3.1.1. Resolves EOD problems and provides other activities with advice and guidance on EOD matters.

5.3.1.2. Organizes and conducts explosive ordnance disposal operations.

5.3.1.3. Determines procedures to be used in detecting, identifying, rendering safe, recovering, or destroying explosive, incendiary, and nuclear ordnance.

5.3.2. Performs EOD functions.

5.3.2.1. Conducts area reconnaissance for detecting and identifying unexploded ordnance.

5.3.2.2. Determines area from which personnel and materials must be evacuated, and ensures it is cleared before proceeding with disposal.

5.3.2.3. Estimates depth of buried unexploded ordnance and removes surrounding earth and debris.

5.3.2.4. Plans and conducts constructing, sinking, and timbering of shafts for access to buried explosive ordnance and to protect personnel during recovery operations.

5.3.2.5. Renders unexploded ordnance safe, using techniques including remote-controlled devices and shaped charges.

5.3.2.6. Plans and conducts neutralizing and disposing of improvised explosive devices.

5.3.2.7. Calculates, fabricates, and uses explosives charges.

5.3.2.8. Disposes of unserviceable explosive ordnance by thermal treatment.

5.3.2.9. Plans and directs removing safe explosive ordnance, and ensures areas adjacent to unexploded ordnance suspected of containing toxic or radioactive contamination are properly monitored.

5.3.2.10. Coordinates EOD activities and movements with other interested military and civilian agencies.

5.3.2.11. Prepares reports concerning EOD activities.

5.3.3. Performs as a specialized member of the Base Emergency Response Force.

5.3.3.1. Provides guidance and advice to the On-scene Commander on, monitoring, evaluating, and decontaminating radioactive, chemical, or biological hazards.

5.3.3.2. Plans, organizes, directs, and assists in safing, removing, and disposing of explosives, explosive devices, and explosive ordnance rendered hazardous due to

accident or incident to include ejection and catapult devices, squibs, explosive bolts, warheads, bombs, rockets, guided missiles, guns, and gun ammunition.

5.3.3.3. Plans, establishes, and conducts explosive ordnance ancillary programs for disaster preparedness personnel and other agencies.

5.3.4. Supervises related munitions and weapons functions.

5.3.4.1. Ensures functions relating to explosive ordnance disposal, weapons, and nuclear weapons activities are coordinated and performed as directed.

5.3.4.2. Ensures the availability of explosive ordnance disposal publications and administrative publication libraries pertaining to explosive ordnance functions.

5.3.4.3. Establishes procedures and standards for the availability of supplies, tools, and equipment pertaining to explosive ordnance disposal operations.

5.3.4.4. Monitors and determines the proper procedures for turn-in or disposal of unserviceable supplies, tools, and equipment.

5.4. Duties and Responsibilities EOD Superintendent/Civil Engineer EOD Manager.

5.4.1. Plans and organizes EOD activities.

5.4.1.1 Obtains and controls the resources necessary to conduct EOD operations.

5.4.1.2. Coordinates with base, local, and federal agencies in matters concerning EOD operations.

5.4.2. Directs EOD activities.

5.4.2.1 Checks methods and techniques employed in detecting, identifying, rendering safe, recovering, and destroying explosive ordnance.

5.4.2.2. Ensures compliance with environmental and safety regulations in performing EOD operations.

5.4.2.3. Drafts and prepares correspondence and reports relating to EOD functions.

5.4.2.4. Supervises preparing, maintaining, and disposing of records concerning EOD activities.

5.4.3. Inspects and evaluates EOD activities.

5.4.3.1. Inspects EOD activities to ensure compliance with policies, regulations, and technical publications.

5.4.3.2. Interprets inspection findings, implements corrective actions, and conducts follow-up inspections.

5.4.4. Performs EOD functions.

5.4.4.1. Resolves problems encountered, and interprets publications pertaining to detecting, identifying, rendering safe, recovering, transporting, and disposing of explosive, incendiary, chemical, biological, and nuclear ordnance.

5.4.4.2. Plans, organizes, directs, and assists in safing, removing, and disposing of explosives and explosive ordnance rendered hazardous as a result of crashed or disabled aircraft and missiles to include ejection and catapult devices, squibs, explosive bolts, warheads, bombs, rockets, guided missiles, guns, and gun ammunition.

5.4.4.3. Provides guidance and assistance detecting, monitoring, evaluating, and decontaminating radioactive, chemical, or biological hazards.

5.4.4.4. Supervises, demonstrates, and assists in using special tools, equipment, and techniques pertaining to EOD.

5.4.4.5. Directs explosive ordnance ancillary programs.

6. Skill/Career Progression. Adequate training and timely progression from the apprentice to the superintendent skill level plays an important role in the Air Force's ability to accomplish its mission. It is essential that everyone involved in training does their part to plan, manage, and conduct an effective training program. The guidance provided in this part of the CFETP will ensure individuals receive viable training at appropriate points in their careers.

6.1. Apprentice. (3-Level)

6.1.1 Upon completion of initial skills training, a trainee will work with a trainer to enhance their knowledge and skills.

6.1.2. Utilize the Career Development Course (CDC), Qualification Training Packages (QTPs), Technical Data and other exportable courses to progress in the career field.

6.1.3. Once task certified, a trainee may perform the task unsupervised.

6.2. Journeyman. (5-Level)

6.2.1. Enter into continuation training to broaden experience base.

6.2.2. 5-Levels may be assigned job positions such as EOD team chief and section supervisor.

6.2.3. Will attend the Airman Leadership School (ALS) after serving 48 months in the Air Force (active duty only). In-residence or correspondence course required for Air Reserve Component (ARC) personnel.

6.2.4. Will use CDCs and other reference material to prepare for Weighted Airmen Performance System (WAPS) testing.

6.2.5. Should continue pursuing a Community College of the Air Force (CCAF) degree.

6.3. Craftsman. (7-Level)

6.3.1. A craftsman can expect to fill various supervisory and management positions such as flight chief, superintendent, and MAJCOM staff positions.

6.3.2. Seven-levels should take courses or obtain added knowledge on management of resources and personnel, and attend the 7-level resident course.

6.3.3. Continuation of academic education through CCAF and higher degree programs is encouraged.

6.3.4. Will attend the Noncommissioned Officer Academy (NCOA) after promotion to TSgt (active duty only). In-residence or correspondence course required for ARC personnel.

6.4. Superintendent. (9-Level)

6.4.1. A 9-level can be expected to fill positions such as flight chief, superintendent, and various staff positions.

6.4.2. Should pursue increased knowledge of budget, manpower, resources, and personnel management.

6.4.3. Recommend the pursuit of additional higher education and completion of courses outside of their career AFS.

6.5. Civil Engineer EOD Manager.

6.5.1. Must be selected for CMSgt and possess qualifications in feeder specialty 3E890.

6.5.2. Will work in a variety of similar jobs and functional areas where general managerial and supervisory abilities can be most effectively used and challenged.

6.5.3. Resident graduation of the USAF Senior NCO Academy (SNCOA) is a prerequisite for CMSgt sew-on (active duty only). In-residence or correspondence course required for ARC personnel.

7. Training Decisions This CFETP was developed to include life-cycle training requirements for this specialty. Included in this spectrum was the strategy of when, where, and how to meet these training requirements. The following decisions were made at the career field Utilization & Training Workshop (U&TW) held at Eglin AFB FL in Feb 00.

7.1. Commission Brooks Laboratory AL/HRTE, Brooks AFB TX, to review Physical Profile Series Factors (PULHES) and Strength Aptitude (X-Factor) as listed in AFMAN 36-2108, Airman Classification.

7.2. Investigate the development of a Mission Ready Airmen (MRA) Course for EOD basic students. The purpose of the course would be to provide training on AF service-unique equipment and procedures. A suggested list of equipment and procedures was prepared.

7.3. Pursue development of a multimedia training program for the EOD Career Field. Multimedia training would be developed using the Fire Fighter Multimedia Training Program modified for EOD use.

7.4. Pursue development of an advanced Improvised Explosive (IED) Device course to enhance training on large advance technology IEDs.

8. Community College of the Air Force (CCAF) Academic Programs. Airmen are automatically enrolled in CCAF upon completion of basic military training. CCAF provides the opportunity to obtain an Associates in Applied Sciences Degree. In addition to its associates degree program, CCAF offers the following:

8.1. Occupational Instructor Certification. Upon completion of instructor qualification training (consisting of the Instructor Methods course and supervised practice teaching), CCAF instructors possessing an associates degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor.

8.2. Trade Skill Certification. When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency-based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

8.3. The Explosive Ordnance Disposal Associates Degree (4VRC) applies to AFSC 3E8X1.

8.3.1. Degree Requirements. All airmen are automatically entered into the CCAF program. Prior to completing an associates degree, the 5-level must be awarded and the following requirements must be met:

Course	Semester Hours
Technical Education	24
Leadership, Management, and Military Studies	6
Physical Education.....	4
General Education	15
Program Elective.....	15
Technical Education; Leadership, Management, and Military Studies; or General Education	
Total.....	64

8.3.2. Technical Education (24 Semester Hours): A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses. Requests to substitute subjects/courses must be approved in advance. Refer to the CCAF General Catalog for application of courses to the technical education area.

Technical Core

Subject/Courses	Semester Hours
Algebra-Based Physics	8
CCAF Internship.....	18
Electricity/Electronics.....	9
Explosive Ordnance Disposal.....	24
General Chemistry	4
Hazardous Materials	6

Technical Electives

Subjects/Courses	Semester Hours
Accident Prevention.....	3
Basic Photography (Camera/Video Operations).....	3
Blueprint Reading/Schematic Diagrams.....	3
Computer Science	6
Emergency Medicine	3
Enlisted Professional Military Education	6
Heavy Equipment Operation	3
Industrial Safety.....	3
Industrial X-ray/Non-Destructive Inspection	3
Inventory Management	3
Investigative Techniques	3
Nuclear Science	4
Map and Compass Reading	3
Principles of Marksmanship	3
Statistics.....	3
Technical Mathematics (College Algebra or Higher)	3
Technical Writing.....	3

8.3.3. Leadership, Management, and Military Studies (LMMS) (6 Semester Hours): Professional military education and/or civilian management courses. The preferred method of completing LMMS is through attendance at an Airman Leadership School, NCO Academy, and/or Air Force Senior NCO Academy. However, civilian courses that emphasize fundamentals of managing human or material resources may also be applicable. See CCAF General Catalog for application of courses to the Leadership, Management, and Military Studies area.

8.3.4. Physical Education (4 Semester Hours): This requirement is satisfied by completion of basic military training.

8.3.5. General Education (15 Semester Hours): Applicable courses must meet the criteria for application of courses to the General Education Requirements (GER) and be in agreement with the definitions of applicable General Education subjects/courses as provided in the CCAF General Catalog.

General Education	Semester Hours
Oral Communications (Speech).....	3
Written Communication (English Composition).....	3
Mathematics.....	3
<p style="margin-left: 40px;">Intermediate Algebra or a college-level mathematics course satisfying delivering institution’s mathematics graduation requirement. If an acceptable mathematics course is applied as a Technical or Program Elective, natural science course meeting GER application criteria may be applied as a General Education Requirement.</p>	
Social Science.....	3
<p style="margin-left: 40px;">Anthropology, Archaeology, Economics, Geography, Government, History, Political Science, Psychology, Sociology</p>	
Humanities.....	3
<p style="margin-left: 40px;">Fine Arts (Criticism, Appreciation, Historical Significance), Foreign Language, Literature, Philosophy, Religion</p>	

8.3.6. Program Elective (15 Semester Hours): Satisfied with applicable Technical Education; Leadership, Management, and Military Studies; or General Education subjects/courses, including natural science courses meeting GER application criteria and foreign language credit earned at the Defense Language Institute or through the Defense Language Proficiency Test. Six semester hours of CCAF degree applicable technical credit otherwise not applicable to this program may be applied. See the CCAF General Catalog for details regarding the Associates of Applied Sciences in EOD Technology.

8.4. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command (AETC) Instructor should actively pursue an Associates Degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

9.1. CE Occupational Badge. The Civil Engineer badge reflects a great history and tradition. By wearing it, you will be recognized by your fellow airmen as having achieved an expected level of competence. The multitude of engineers before you established this expectation through excellent service in both peace and war. Eligibility criteria for award and wear of AF occupational badges can be found in AFI 36-2923 (Aeronautical, Duty, and Occupational Badges) on the Air Force Electronic Publications Library (AFEPL).

9.1.1. CE Badge Heraldry. The gear wheel and compass have historically been used to represent the engineering profession, in both the military and civilian sector. The gear represents the essence of engineering: applying scientific principles and technology to practical ends. To Air Force engineers, the gear symbolizes an element (representing the built environment) that meshes with other environments (weapon systems and trained personnel) to enable the Air Force to perform its mission. The compass is a precision tool historically used by engineers in designing and constructing facilities and equipment. The gear and compass together symbolize all the diverse specialties within Air Force civil engineer. Finally, the wings help to portray the fundamental linkage between the engineering and aviation components; and that the built environment is the foundation supporting Air Force mission and people.

9.2. EOD Occupational Badge. The EOD badge reflects the achievements and laurels gained in eliminating or minimizing accident potentials of hazardous ordnance, through the ingenuity and devotion to duty of our fellow EOD professionals. It also serves as a living memorial of our fellow EOD professionals who gave their lives while performing EOD duties. Eligibility criteria for award and wear of AF EOD occupational badges can be found in AFI 36-2923 (Aeronautical, Duty, and Occupational Badges) on the AFEPL.

9.2.1. EOD Badge Heraldry. **The wreath** is symbolic of the achievements and laurels gained in minimizing accident potentials, through the ingenuity and devotion to duty of its members. It is in the memory of those EOD professionals who gave their lives while performing EOD duties. **The bomb**, copied from the design of the World War II, Bomb Disposal Badge, represents the historic and major objectives of the EOD attack, the unexploded bomb. The three fins represent the major areas of nuclear, conventional, and chemical/biological interest. **The lightning bolts** symbolize the potential destructive power of the bomb and the courage and professionalism of EOD personnel in their endeavors to reduce hazards as well as to render explosive ordnance harmless. **The shield** represents the EOD mission—prevent a detonation and protect the surrounding area and property to the utmost.

9.3. Basic Badges. The basic badge is awarded upon successful completion of the apprentice course.

9.4. Senior Badges. The senior badge adds a star to the middle of the bomb. This is awarded after the member successfully completes the 7-level awarding course.

9.5. Master Badges. The master badge adds a wreath and a star to the top of the badge. It's awarded to master sergeants or above with 5 years in the specialty from award of the 7-skill level.

9.6. Enlisted Career Path.

Table 9.1 Enlisted Career Path				
Education and Training Requirements	GRADE REQUIREMENTS			
	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure (HYT)
Basic Military Training school				
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 16 months		
Upgrade To Journeyman (5-Skill Level) - Complete all core and duty related tasks identified in the CFETP - Minimum 15 months OJT (9 months for retrainees) - Complete appropriate CDC if/when available	SrA	35 months	28 months	12 Years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).	Trainer			
	- Trainer must be qualified and certified on tasks to be trained - Must attend formal AF Training Course and be appointed by Commander in writing			
Upgrade To Craftsman (7-Skill Level) - Complete all core and duty related tasks identified in the CFETP - Minimum rank of SSgt - 12 months OJT (6 months for retrainees) - Complete appropriate CDC if/when available - Attend 7-level Craftsman Course (must complete read ahead material and a minimum of 12 months in UGT prior to attendance – 6 months minimum UGT for retrainees)	SSgt	4.8 years	3 years	20 Years
	Certifier			
	- SSgt with 5-skill level or civilian equivalent - Attend formal AF Certifier Course and appointed by Commander in writing - Be a person other than the trainer (for core and critical tasks only)			
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt Selectee - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only)	TSgt MSgt	13.5 years 16.9 years	5 years 8 years	24 Years 26 Years
USAF Senior NCO Academy (SNCOA) - Must be a SMSgt, SMSgt Selectee, or select MSgt - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only)	SMSgt	19.6 years	11 years	28 Years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt - Must be a resident graduate of SNCOA (Active Duty Only)	CMSgt	20.5years	14 years	30 Years

SECTION C – SKILL LEVEL TRAINING REQUIREMENTS

10. Purpose. The various skills in the career field are defined in terms of task and knowledge requirements for the EOD career ladder. They are stated in broad, general terms and establish the standards of performance. An all encompassing core task list has been developed for this specialty because of the diversity of the missions supported and the equipment installed to meet mission requirements. Core tasks, knowledge items, and skill requirements for this specialty are identified in the STS. Completion of the mandatory 3-level skill awarding course, the mandatory use and completion of CDCs, the mandatory 7-level course, and the mandatory use and completion of applicable AFJQS/AFQTPs comprise the Air Force core tasks for this specialty.

11. Skill Level Training Requirements.

11.1. Apprentice (3-Level) Training Requirements. (3E831)

11.1.1. Specialty Qualifications.

11.1.1.1. Knowledge. Completion of the basic EOD course satisfies this mandatory requirement.

11.1.1.2. Education.

11.1.1.2.1. Completion of high school or general educational development equivalency is mandatory.

11.1.1.2.2. Completion of high school courses in mechanics, physics, or basic electricity is desirable.

11.1.1.3. Training.

11.1.1.3.1. Non-prior service EOD trainees attend the EOD Preliminary Course at Lackland AFB, TX.

11.1.1.3.2. Completion of US Naval Explosive Ordnance Disposal School, Eglin AFB, FL, J5ABN3E831 002, is mandatory for award of this skill level.

11.1.1.4. Experience. N/A

11.1.1.5. Other.

11.1.1.5.1. No record of emotional instability is mandatory for entry, award, and retention of this AFSC.

11.1.1.5.2. Normal color vision as defined in AFMAN 48-123, Medical Examination and Standards, is mandatory for entry into this AFSC.

11.1.1.5.3. Normal depth perception as defined in AFMAN 48-123 is mandatory for entry, award, and retention of this AFSC.

11.1.1.5.4. Eligibility for a Secret security clearance according to AFI 31-501, Personnel Security Management Program, is mandatory for award and retention of the semi-skilled AFSC.

11.1.1.5.5. Mandatory AQE scores General-60 and Mechanical-55.

11.1.2. Training Sources/Resources.

11.1.2.1. Formal training is accomplished through US Naval Explosive Ordnance Disposal School, J5ABN3E831 002, at Eglin AFB, FL.

11.1.2.2. The COL (Part II, Section B of this CFETP) identifies all the knowledge and tasks, with their respective standards.

11.1.2.3. QTPs are mandatory for use during UGT/QT, when available for a duty position or piece of equipment.

11.1.3. Implementation.

11.1.3.1. The 3-skill level is awarded upon graduation of EOD course J5ABN3E831 002, Eglin AFB, FL.

11.2. Journeyman (5-Level) Training Requirements. (3E851)

11.2.1. Specialty Qualifications. Entry into 5-level upgrade training is initiated after the individual has completed the 3-level school. All 3E831 qualifications apply to 3E851 requirements.

11.2.1.1. Knowledge. Knowledge is mandatory of:

11.2.1.1.1. Composition and characteristics of United States and known foreign explosive, incendiary, chemical and nuclear munitions.

11.2.1.1.2. Principles of basic electricity.

11.2.1.1.3. Handling, use, and disposal of hazardous wastes and materials.

11.2.1.2. Education. N/A

11.2.1.3. Training.

11.2.1.3.1. Completion of CDCs 3E851, Explosive Ordnance Disposal Journeyman.

11.2.1.3.2. All core tasks identified with a single asterisk (*) in the core task column of the STS.

11.2.1.3.3. Duty position requirements identified by the supervisor.

11.2.1.4. Experience.

11.2.1.4.1. Experience is mandatory in performing functions such as rendering safe, removing, and destroying hazardous or unserviceable United States explosive ordnance.

11.2.1.4.2. Experience is desirable in performing functions such as rendering safe, removing and destroying hazardous or unserviceable foreign munitions; and in decontamination activities.

11.2.1.5. Other. N/A

11.2.2. Training Source/Resources.

11.2.2.1. CDC 3E851, Explosive Ordnance Disposal Journeyman,

11.2.2.2. The STS (Part II, Section A, of this CFETP) identifies all of the core tasks required for qualification in the individual's duty position.

11.2.2.3. Qualified trainers provide upgrade and qualification training for duty positions, managed programs, and/or equipment to be used.

11.2.3. Implementation.

11.2.3.1. Entry into formal Journeyman upgrade training is accomplished after individuals are assigned to their first duty station.

11.2.3.2. Qualification training is initiated any time individuals are assigned duties they are not qualified to perform.

11.2.3.3. When available, QTPs are used concurrently to obtain necessary duty position qualifications.

11.3. Craftsman (7-skill level) Training Requirements. (3E871)

11.3.1. Specialty Qualifications. All 3E851 qualifications in addition to the following:

11.3.1.1. Knowledge. Knowledge is mandatory of:

11.3.1.1.1. Composition and characteristics of United States and known foreign explosive, incendiary, chemical and nuclear ordnance.

11.3.1.1.2. Principles of basic electricity.

11.3.1.1.3. Handling, use, and disposal of hazardous wastes and materials.

11.3.1.2. Education.

11.3.1.2.1. To assume the grade of SSgt, individuals must successfully complete Airman Leadership School (active duty only).

11.3.1.2.2. To assume the grade of MSgt, individuals must successfully complete the NCO Academy (active duty only).

11.3.1.2.3. For ANG/AFRES, completion of ECI courses 00001 (ALS) and 00006 D&E (NCO Academy) satisfy the requirements.

11.3.1.3. Training.

11.3.1.3.1. Completion of in-residence 7-level course J3ACP3E871 000 is mandatory.

11.3.1.3.2. All core tasks identified with a double asterisk (**) in the core column of the STS.

11.3.1.3.3. When available, the QTPs for the assigned core tasks.

11.3.1.3.4. Duty position requirements identified by the supervisor.

11.3.1.4. Experience.

11.3.1.4.1. Qualification in and possession of AFSC 3E851.

11.3.1.4.2. Experience is mandatory supervising functions such as rendering safe, removing, and/or destroying dangerous or unserviceable United States explosive ordnance.

11.3.1.4.3. Experience is desirable in supervising functions such as rendering safe, removing, and/or destroying dangerous or unserviceable foreign explosive ordnance and in decontamination activities.

11.3.1.5. Other. N/A

11.3.2. Training Source/Resources.

11.3.2.1. Course J3ACP3E871 000, In-resident EOD 7-Level Management.

11.3.2.2. NCO Academy Course 00006 D&E (paper base correspondence).

11.3.2.3. STS (Part II, Section A of this CFETP) identifies all the core tasks required for qualification in the individual's duty position.

11.3.2.4. Qualified trainers provide upgrade and qualification training for duty positions, managed programs, and/or equipment to be used.

11.3.3. Implementation.

11.3.3.1. Entry into OJT is initiated when an individual has obtained the necessary rank and skill level.

11.3.3.2. Qualification training is initiated anytime individuals are assigned duties they are not qualified to perform.

11.4. Superintendent (9-skill level) Training Requirements. (3E891)

11.4.1. Specialty Qualifications.

11.4.1.1. Knowledge. Knowledge is mandatory of:

11.4.1.1.1. Composition and characteristics of United States and known foreign explosive, incendiary, chemical and nuclear ordnance.

11.4.1.1.2. Basic electricity

11.4.1.1.3. Handling, use, and disposal of hazardous wastes and materials.

11.4.1.2. Education.

11.4.1.2.1. Completion of in-residence Senior NCO Academy is mandatory (active duty only).

11.4.1.2.2. For ANG/AFRES must complete AFIADL course 00005 (computer based CD ROM) to satisfy the Senior NCO Academy requirement.

11.4.1.3. Training. Completion of duty position training requirements.

11.4.1.4. Experience.

11.4.1.4.1. Qualification in and possession of AFSC 3E871 is mandatory.

11.4.1.4.2. Experience is mandatory in directing functions such as detecting, identifying, rendering safe, recovering, or destroying explosive, incendiary, or nuclear ordnance.

11.4.1.5. Other. N/A

11.4.2. Training Sources/Resources.

11.4.2.1. In-residence SNCO Academy located at Maxwell AFB - Gunter Annex AL.

11.4.2.2. SNCO Academy Multimedia Correspondence Course, Course 12 (exportable computer based CD ROM).

11.4.3. Implementation.

11.4.3.1. Entry into 9-level training is initiated when an individual is selected for SMSgt and is fully qualified in the AFS 3E871.

11.4.3.2. QT is initiated any time an individual is assigned duties they are not qualified to perform.

11.5. Civil Engineer EOD Manager.

11.5.1. Specialty Qualification.

11.5.1.1. Knowledge. Knowledge is mandatory of:

11.5.1.1.1. Managing and directing personnel resource activities.

11.5.1.1.2. Interpreting and enforcing policy and applicable directives.

11.5.1.1.3. Establishing control procedures to meet work goals and standards.

11.5.1.1.4. Recommending or initiating actions to improve operational efficiency.

11.5.1.1.5. Planning and programming work commitments and schedules.

11.5.1.1.6. Developing plans regarding EOD operations.

11.5.1.2. Education. N/A

11.5.1.3. Training.

11.5.1.4. Experience.

11.5.1.4.1. Possess qualifications in feeder specialty (3E891) prior to award of Civil Engineer Manger code 3E800.

11.5.1.4.2. Managerial ability to plan, direct, coordinate, implement, and control a wide range of work activity.

11.5.1.5. Other. N/A

11.5.2. Training Sources and Resources. N/A

11.5.3. Implementation. Entry into Civil Engineer Manager code 3E800 is initiated when an individual is selected for CMSgt and possesses qualifications in specialty 3E891.

SECTION D - RESOURCE CONSTRAINTS

3E831

12. Purpose. The following paragraphs describe the resource constraints that result from publication of this CFETP. All constraints are referenced to specific STS line items shown as back slashed on the STS.

12.1. Equipment Constraints:

STS item 13.2.4.	All-Purpose Remote Transport System (1 ea)
STS item 13.2.9.	Valon/Mini Mine Detector (3 ea)
STS item 13.2.10.	Global Positioning System (3 ea) CYZ-10 Key Loader for GPS (1 ea) KOI-18 Tape Reader (1 ea) Fill Cable (1 ea)
STS item 13.2.11.	Assigned Tactical Radios (3 ea) Fill Frequency Device (1 ea) Charger Multi Station (1 ea) Cloning Cable (1 ea) AN/GRC-238 Base Station (1 ea) Repeater (1 ea) Antenna (1 ea)
STS item 13.2.12.	M82A1 Barrett (2 ea)
STS item 13.2.14.	Bomb Shield (1 ea) Bomb Blanket (1 ea)
STS item 13.2.15.	Cameras (3 ea) Computers and Software (3 ea) Film, Print, 35mm, ASA 400 Film, Instant, (Spectra) Film, Instant, (Sun 600)
STS item 13.2.16.	Field Fabricated Dearmer/IDD (12 ea)
STS item 13.2.17.	Night Vision Equipment (3 ea)
STS item 13.2.18	ADM-300A Basic Kit (3 ea)
STS item 15.5.4 & 15.5.5	Demo Chest/Footlocker (3 ea) MK2 Shaped Charge (30 ea) MK3 Shaped Charge (30 ea) MK7 Mod 6 Shaped Charge (60 ea) MK7 Mod 7 Shaped Charge (30 ea) MK7 Mod 8 Shaped Charge (30 ea) Machine, Blasting, 50 Cap, M3 (3 ea) Zip Tie, Electrical (1hd) Tape Measuring, 10' (3 ea) Electrical Insulation Tape (3 ro) M51 Test Set (3 ea) 6' Lead, 18 AWG Wire (6 ea) Firing Wire, 18 AWG (3000') Reel Spool (3 ea)

STS item 17.5.1.	Real Assembly (3 ea) Recon Kits containing items listed below (6 ea) Tool Bag Inside Calipers Outside Calipers Tape Measure Acid Swabbing Brushes Inspection Mirror Magnifying Glass Clipboard
STS item 17.5.2.	Computer (6 ea) Printer (6 ea)

12.2. Time/Manpower/Student Man-years Constraints: 16 more days in course length/ 6 more instructors/17 more student man-years

STS item 1.1 through 10.3 Common Core		(16 hrs)
STS item 11.2. Organizational Structure	A/X	(1.0 hrs)
STS item 11.21 Confined Space Awareness	A/X	(1.0 hrs)
STS item 11.22.1 Identify Security Violations	b/X	(1.0 hrs)
STS item 11.22.2. Report Security Violations	b/X	(0.5 hrs)
STS item 11.23 COMSEC Vulnerabilities of AFSC 3E8X1	a/X	(1.0 hrs)
STS item 11.26.1 History of DOD EOD Program	A/X	(0.5 hrs)
STS item 11.27.1 Peacetime Duties of 3E8X1	A/X	(1.0 hrs)
STS item 11.27.2 Contingency Duties of 3E8X1	A/X	(1.0 hrs)
STS item 13.2.4 All-Purpose Remote Transport System	1a/X	(3.0 hrs)
STS item 13.2.9 Valon/Mini Mine Detector	2b/A	(3.0 hrs)
STS item 13.2.10 Global Positioning System	2b/X	(5.0 hrs)
STS item 13.2.11 Assigned Tactical Radios	2b/X	(8.0 hrs)
STS item 13.2.12 M82A1 Barrett	2b/X	(8.0 hrs)
STS item 13.2.13 Assigned Bomb Suit	2b/A	(4.0 hrs)
STS item 13.2.14 Bomb Blanket/Shield	2b/X	(2.0 hrs)
STS item 13.2.15 Cameras	2b/X	(3.0 hrs)
STS item 13.2.16 Field Fabricated/Improvised Disposal Dearthers	2b/A	(3.0 hrs)
STS item 13.2.17 Night Vision Equipment	2b/X	(3.0 hrs)
STS item 13.2.18 ADM 300 Radiacs	2b/X	(4.0 hrs)
STS item 15.1.6.2 Identify Environmental Impacts caused by EOD	a/X	(2.0 hrs)
STS item 15.1.6.3.1 Military Munitions Rule	a/X	(2.0 hrs)
STS item 15.1.6.3.2 Range Rule	a/X	(2.0 hrs)
STS item 15.5.4 Vent and Burn	2b/1a	(8.0 hrs)
STS item 15.5.5 Demilitarization	2b/A	(4.0 hrs)
STS item 17.5.1 Collect Technical Intelligence Information	2b/X	(1.0 hrs)
STS item 17.5.2 Prepare Technical Intelligence Reports	2b/X	(4.0 hrs)
STS item 18.1 Air Base Recovery Concepts	A/X	(1.0 hrs)
STS item 20.2.1 Venting	B/X	(0.5 hrs)
STS item 20.2.2 Buttressing	B/X	(0.5 hrs)

STS item 20.2.3 Barricading	B/X	(0.5 hrs)
STS item 20.2.4 Trenching	B/X	(0.5 hrs)
STS item 20.2.5 Mounding	B/X	(0.5 hrs)
STS item 20.2.6 Flooding	B/X	(0.5 hrs)
STS item 20.3 Estimate Collateral Damage	2b/X	(3.0 hrs)
STS item 23.1 Use SMUD Techniques	2b/X	(4.0 hrs)
STS item 24.2 Perform Mission Objectives	b/a	(2.0 hrs)
STS item 24.3.1 Perform Control Procedures for Credentials	b/X	(0.5 hrs)
STS item 24.3.2 Perform Destruction and Disposition	b/X	(0.5 hrs)
STS item 30.4.1 Identify Foreign Aircraft Weapons System	A/X	(0.5 hrs)
STS item 30.4.2 Observe Foreign Aircraft Safety Precautions	A/X	(0.5 hrs)
STS item 31.2.1 Identify Foreign Pyrotechnics	A/X	(0.5 hrs)
STS item 31.2.2 Observe Foreign Pyrotechnics Safety Precautions	A/X	(0.5 hrs)
STS item 32.8 Perform IED Post Blast Analysis	a/X	(4.0 hrs)
STS item 32.9 Identify Advanced Electronic Components	a/X	(3.0 hrs)
STS item 32.10 Identify Advanced Diagnostics Techniques	a/X	(3.0 hrs)
STS item 32.11.1 HEADD	a/X	(1.0 hrs)
STS item 32.11.2 Dragon	a/X	(1.0 hrs)
STS item 32.11.3 Explosive Entry Charges	a/X	(2.0 hrs)
STS item 32.12.1 Explosives such as Semtex, Binary, Dynamite	2b/X	(3.0 hrs)
STS item 32.12.2 Foreign Military Explosives	B/X	(1.0 hrs)

Total 126 hours = 16 days

12.3. Facility Constraints: Need classroom facility.

13. Apprentice (3-Level) Training.

13.1. J5ABN3E831 002, EOD School

13.2. Constraint. Course implementation with slashes (column 4A1). Course cannot be implemented until completion and approval of Plan of Instruction (POI).

13.2.1. Impact. Constrained training will not be taught until all equipment and resource constraints are removed despite the implementation of this CFETP.

13.2.2. Resources Required. Resource constraints are identified in paragraph 12. The constrained course will not be implemented until required resources are received.

13.2.3. Action Required. Complete revision of the 3-level course to meet all training requirements and proficiency codes identified in this CFETP.

13.3. OPR/Target Completion Date. 366 TRS/Detachment 3 will implement revised training with class beginning 1 Oct 04.

SECTION E - TRANSITIONAL TRAINING GUIDE

“There are currently no transition training requirements. This area is reserved.”

PART II

SECTION A - SPECIALTY TRAINING STANDARD

1. Implementation. This STS will be used to identify technical training provided by AETC for the 3-level Explosive Ordnance Disposal course with class beginning 4 Aug 03 and graduating 4 Mar 04 and the 7-level Civil Engineer Explosive Ordnance Disposal Craftsman course with class beginning 20 Oct 03 and graduating 31 Oct 03.

2. Purpose. As prescribed in AFI 36-2201, this STS:

2.1. Lists in Column 1 (*Tasks, Knowledge, and Technical Reference*) the most common tasks, knowledge, and technical references (TRs) necessary for airmen to perform duties in the 3-, 5-, and 7-skill level.

2.2. Column 2 (*Core Tasks*) identifies core tasks (specialty-wide training requirements) by an asterisk (*) for 5- and 7- skill levels or a double asterisk (**) for 7-skill level only. ***As a minimum, trainees must complete all core and critical tasks for skill level upgrade.***

2.2.1. All tasks in the 3 level column are considered wartime tasks. In response to a wartime scenario, these tasks will be taught in the 3-level course in a streamlined training environment.

2.2.2. Tasks identified by a diamond (◆) in column 2 are extremely important to the career field. Diamond tasks are the same as core tasks with one exception--equipment shortfalls at most locations have created problems with the actual hands-on certification of these tasks. In instances where required equipment is not available for instruction, completion of the task's QTP and passing the corresponding CerTest (when available) is all that is required for upgrade and qualification training. Hands-on certification should be accomplished at the first opportunity when equipment is available.

2.3. Provides **certification for OJT**. Columns 3A, B, C, D, and E are used to record completion of tasks and knowledge training requirements. If available, use automated training management systems to document technician qualifications. **Task certification of core and critical tasks** require a training completion date and initials of the trainee, trainer, and certifier. All non-core tasks require training completion date and initials of the trainee and trainer only.

2.4. Shows **formal training and correspondence course** requirements. Columns 4A, B, and C show the proficiency to be demonstrated on the job by the graduate as a result of training on the task/knowledge and the career knowledge provided by the initial skills training course, correspondence course, and read-ahead material. See CADRE/AFSC/CDC listing maintained by the unit training manager for current CDC listings.

2.5. Identifies **qualitative requirements**. Attachment 1 contains the *Proficiency Code Key* used to indicate the level of training and knowledge provided by resident training and career development courses.

2.6. Becomes a **job qualification standard (JQS)** for on-the-job training when placed in AF Form 623, Individual Training Record, and used according to AFI 36-2201. When used as a JQS, the following requirements apply:

2.6.1. Documentation. Document and certify completion of training.

2.6.1.1. Identify **current duty position requirements** by circling the subparagraph number or letter next to the task statement. Document task completion by annotating columns 3A, 3B, 3C, and 3D.

2.6.1.2. Transcribing from old document to CFETP. Transcribing documentation to a new CFETP is an administrative function, not a re-evaluation of training. Upon publication of a new CFETP, use the following procedures to transcribe:

2.6.1.2.1. For **tasks previously certified and still required in the current duty position**, circle the task and enter the current date with the trainee and supervisor initials.

2.6.1.2.2. To **transcribe previous certification for tasks not required in the current duty position**, carry forward only the previous completion dates (not the initials of another person). If and when these tasks become a duty position requirement, recertify with current date and trainer, certifier, and trainee's initials.

2.6.1.2.3. Annotate the AF Form 623a, (for example, "I certify the information contained in the CFETP dated XX was transcribed to the CFETP dated XX, and the trainee was given the super-ceded CFETP." Signed, dated, supervisor and trainee).

2.6.1.3. Documenting Career Knowledge. When a CDC is not available, the supervisor identifies STS training references that the trainee requires for career knowledge and ensures, as a minimum, that trainees cover all mandatory items specified in AFMAN 36-2108, Utilization and Classification of Air Force Military Personnel. For two-time CDC exam failures, supervisors identify all STS items corresponding to the areas covered by the CDC. The trainee completes a study of STS references, undergoes evaluation by the task certifier, and receives certification on the STS. *NOTE:* Career knowledge must be documented prior to submitting a CDC waiver.

2.6.1.4. Decertification and Recertification. When an airman is found to be unqualified on a task, the supervisor shall erase previous certification and enter airman into qualification training. Appropriate remarks are entered on the AF Form 623a, On-The-Job Training Record Continuation Sheet, as to the reason for decertification. The individual is recertified using the normal certification process.

2.6.2. Training Standard. Tasks are trained and certified to the "go" level. "Go" means the individual can perform the task without assistance and meets the local

requirements for accuracy, timeliness, and correct use of procedures. This equates to a “3c” in the proficiency code key. AFQTPs, when available, shall be used to identify Air Force standardized procedures. Local requirements for accuracy, timeliness and use of procedures shall be applied accordingly.

2.7. STS. The STS is used as a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Senior NCOs with extensive practical knowledge in their career fields develop Specialty Knowledge Tests (SKTs) at the USAF Occupational Measurement Squadron. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are listed in Part II of the WAPS Catalog which can be found on the Air Force Occupational Measurement Squadron website (<https://www.omsq.af.mil/>). WAPS is not applicable to the Air National Guard or Air Reserve Forces.

3. Recommendations. Comments and recommendations are invited concerning quality of training AETC graduates receive. Reference this STS regarding changes and address your correspondence to 782 TRG/TGAV, 620 9th Avenue, Suite 3, Sheppard AFB TX 76311-2368. A customer service information line (CSIL) has been installed for the supervisor’s convenience to identify graduates who may have received over or under training on tasks/knowledge items listed in the training standard. For a quick response to problems, call our customer information line at DSN 736-2574, anytime, day or night.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

L. DEAN FOX, Maj Gen, USAF
The Civil Engineer
DCS/Installations and Logistics

3 Attachments

1. Qualitative Requirements
2. 3-, 5-, and 7-level career field training requirements
3. 3- and 5-level general contingency training requirements

This block is for identification purposes only.		
Name of Trainee		
Printed Name(Last, First, Middle)	Initials (Written)	SSAN
Printed Names and Written Initials of Training and Certifying Officials		
N/I	N/I	
N/I	N/I	
N/I	N/I	

PROFICIENCY CODE KEY		
	SCALE VALUE	DEFINITION: The individual
TASK PERFORMANCE LEVELS	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREMELY LIMITED)
	2	Can do most parts of the task. Needs only help on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
* TASK KNOWLEDGE LEVELS	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step-by-step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)
** SUBJECT KNOWLEDGE LEVELS	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)
EXPLANATIONS		
<p>* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b)</p> <p>** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.</p> <p>- This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC.</p> <p>X This mark is used alone in course columns to show that training is required but not given due to limitations in resources.</p>		

Note 1: Trainers are responsible for annotating references to identify current sources pending STS revision.
Note 2: Underlined training references are commercial publications or other publications essential for enlisted specialty training and mission accomplishment.
Note 3: Task knowledge gained at Basic Military Training (BMT) will not be repeated during resident training.
Note 4: Completion of the 7 level Read-ahead Material (RAM), J3ACP3E8X1 000, Explosive Ordnance Disposal Craftsman resident course, must be successfully completed (demonstrated by testing) by seven-level candidates prior to attending.
Note 5: QTPs may be provided through multiple delivery systems (paper-based, CD-ROM, or video). When delivered, completion is required for upgrade or qualification. When available, QTPs will be identified in the Air Force Index 8.

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
1. CE ORGANIZATION AND CAREER FIELD STRUCTURE TR: AFDD 2-4.2; AFIs 10-209, 10-210, 10-211, 32-1022, 36-2101, 38-101, 51-903; AFMAN 36-2108; War & Mobilization Plan (WMP)-1, Annex S												
1.1 Base Civil Engineer (BCE) structure						A/X		B				
1.2 Progression in career ladder						A/X		B				
1.3 Duties and responsibilities												
1.3.1 Peacetime						A/X						
1.3.2 Contingency						A/X						
1.4 Functions of:												
1.4.1 Base Civil Engineer						A/X		B				
1.4.2 Prime BEEF						A/X		B				
1.4.3 RED HORSE						A/X		B				
1.4.4 HQ ANG/AFRC						A/X		B		A	B	
1.5 Resources												
1.5.1 Assess manpower requirements										B	2b	
1.5.2 Identify budget requirements										B	2b	
1.5.3 Determine equipment requirements										B	2b	
1.5.4 Use Allowance Standards (AS)										A	B	
1.5.5 Research, Development, and Acquisition (RD&A) TR: DoDD 5000.1												
1.5.5.1 Process										B	2b	
1.5.5.2 Unit responsibilities										B	B	
1.5.5.3 Major command responsibilities										B	B	
1.5.5.4 Mission Needs Statement (MNS)											B	
1.5.5.5 Operational Requirement Documents (ORD)											B	
1.5.5.6 Notional Concept										b	2b	
1.5.6 Assess vehicle requirements										A	B	
1.5.7 Requesting contract services												
1.5.8 Requesting Simplified Acquisition of Base Engineering Requirements (SABER) contract												
1.5.9 Management Equipment Evaluation Program (MEEP)												
2. SPECIFIC OPSEC VULNERABILITIES TR: AFI 10-1101							A/X					
3. PRACTICE COMPUTER SECURITY TR: AFSSI 5100							A/X			A	1b	
4. SUPERVISION TR: AFMAN 36-2108; AFI's 36-2201 Vol 1-6; AFPAM 35-49; DoDD 5500.7												
4.1 Orient new personnel												

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
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		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
4.2 Assign personnel to work crew												
4.3 Coordinate work assignments												
4.4 Schedule work assignments and priorities												
4.5 Establish:												
4.5.1 Work methods												
4.5.2 Controls												
4.5.3 Performance standards												
4.6 Evaluate work performance of subordinate personnel												
4.7 Resolve technical problems for subordinate personnel												
4.8 Direct projects												
5. TRAINING TR: AFI's 36-2102, 36-2201 Vol 1-6; AFMAN 36-2108; Education and Training Course Announcements (ETCA)												
5.1 Evaluate personnel to determine need for training												
5.2 Enlisted specialty training supervision												
5.2.1 Prepare job qualification standards												
5.2.2 Conduct training												
5.2.3 Counsel trainees on their progress												
5.2.4 Monitor training effectiveness												
5.2.4.1 Career knowledge									A			
5.2.4.2 Job proficiency upgrade									A			
5.2.4.3 Qualification									A			
5.3 Maintaining training records									A			
5.4 Evaluate training programs effectiveness												
5.5 Recommend people for training												
5.6 AETC training management system (Training Allocation)									A			
5.7 Managing Certification and Testing (CerTest)								A/X	B			
5.8 National/DoD Certification requirements									A			
5.9 AFQTP Requirements												
6. ENVIRONMENTAL AWARENESS AND COMPLIANCE TR: AFI's 10-2501, 32-7045, 32-7061; Chemicals in Your Community (EPA 550-K-93-003); EO 12856												
6.1 Environmental Compliance Assessment Management Program (ECAMP)								A/X	B			
6.2 National Environmental Policy Act (NEPA)								A/X	B			
6.3 Environmental Impact Analysis Process (EIAP)								A/X	B			
6.4 Emergency Planning and Right to Know Act (EPCRA)								A/X	B			
7. CE MANAGEMENT TR: AFI 32-1022; AFPAM 32-1098; AFMAN 23-110												
7.1 Customer relationships								A/X	B			
7.2 Work identification and authorization									A			
7.3 Plan work requirements									A			
7.4 Plan logistics support (CEMAS,BOM)									A			
7.5 IMPAC Program												
7.6 Maintain recurring work program									A			
7.7 Scheduling/time accounting									A			
7.8 Warranty and Guarantee Program									A			
7.9 Property Accountability									B			

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		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
7.10 Base Comprehensive Plan												
7.11 Legal limits								A				
7.12 Mark "As Built" Drawings								A				
7.13 Reimbursements procedures								A				
7.14 CE Specific Automated Systems (Computer) Capability												
7.14.1 Perform inputs								A				
7.14.2 Maintain files								A				
7.14.3 Develop automated reports								A				
7.14.4 Extract automated reports								A				
7.14.5 Perform automated data analysis								A				
7.15 Host Tenant and Interservice Agreements												
7.16 Civil Engineer Civilian Management												
8. COMMUNICATIONS TR: AFI 33-106; AFJMAN 24-306												
8.1 Use radios							b/X					
8.2 Use hand signals							b/X					
8.3 Identify airdrome signals							b/X					
9. AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFPDs 91-2, 91-3; AFI 91-302; AFIND 17												
9.1 Supervisory responsibilities								B				
9.2 Hazardous material waste handling							A/X	B				
9.3 Lead-based paint (LBP) hazard TR: 29-CFR 1926.62							B/X					
9.4 Fire extinguisher training							A/X					
10. PUBLICATIONS TR: AFINDs 2, 9												
10.1 Military							A/X	B				
10.2 Commercial							A/X	B				
10.3 Engineering Technical Letters (ETL)							A/X	B				
11. EOD FLIGHT MANAGEMENT TR: AFIs 10-101, 10-201, 10-208, 10-210, 10-402, 10-403, 10-404, 21-101, 21-401, 21 Series, 31-401, 31-501, 32-3001, 33-203, 38-101, 38-201, 38-204, 65-601 Vol 1, 91-101, 91-204, 91-207, 91-301, 91-302; AFIND 17; AFJI 32-3002; AFMAN 10-206, 10-401 Vol 1 & 2, 24-204(I), 36-2108, 91-201; AFOSH STD 48-137; AFPD 21-3, 32-30, 91-1, 91-2, 91-3; AFCAT 21-209, Vol 1 & 2; DoDD 1000.3, 2000.12, 5160.62, 5200.2, 5210.2, 5230.11; DoDI 2000.14, 6050.5, 6055.1; DoD 0-2000.12H, 3150.8M, 5200.1R, 5200.2R, 5200.8R, 6055.5M; 29 CFR 1910; TOs 00-5-1, 00-5-2, 00-5-18, 00-25-235, 00-35-54, 60A Series, and 0-1 Series Indexes												
11.1 Air Staff and MAJCOM responsibilities								B				
11.2 Organizational Structure							A/X	B				
11.3 Specialized Unit/Command Responsibilities												
11.4 Incident Response												
11.4.1 Procedures							a	b				
11.4.2 Report								b				
11.5 Report Material Deficiencies								b				

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
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		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
11.6 Mobility Team Chief Responsibilities												
11.6.1 Identify the elements of the UTCs											2b	
11.6.2 Requirements of Mobility Processing												
11.7 Develop Contingency Plans Input										B	2b	
11.8 Interpret:												
11.8.1 Time-Phased Force Development List (TPFDL)										B	2b	
11.8.2 War and Mobilization Plan (WMP)										B	2b	
11.8.3 Contingency Operations/Mobility Planning and Execution System (COMPES)										B	2b	
11.9 Identify Requirements for Situation Reports (SITREP)										B	2b	
11.10 Contingency Munitions Storage Area Plans											2b	
11.11 Apply Operational Risk Management (ORM) principles to EOD operations											2b	
11.12 Frequency Management Requirements								A				
11.13 Mortuary Support								B				
11.14 Apply Status of Resources and Training System (SORTS) to EOD functions								B			2b	
11.15 Use and documentation of CFETP										B	2b	
11.16 Identify hazards of AFSC 3E8X1						A						
11.17 Personal Protective Equipment								B				
11.18 Nuclear Surety Program								B				
11.19 Mishap Reporting and Investigation								A				
11.20 Explosive Safety Program								B				
11.21 Confined Space Awareness						A/X		B				
11.22 Protect Classified Information												
11.22.1 Identify Security Violations						b/X						
11.22.2 Report Security Violations						b/X		b				
11.23 COMSEC vulnerabilities of AFSC 3E8X1						a/X		b				
11.24 Security Requirements for EOD Publications												
11.24.1 Store EOD Publications								b				
11.24.2 Perform Control and Access Procedures								b				
11.24.3 Destroy and Dispose of EOD Publications								b				
11.24.4 Transport EOD Publications								b				
11.25 Protect Firearms and Munitions								b				
11.26 History of EOD Program												
11.26.1 Department of Defense						A/X						
11.26.2 Air Force EOD Program								A				
11.27 Duties of AFSCs 3E831/51/71												
11.27.1 Peacetime						A/X		B				
11.27.2 Contingency						A/X		B				
11.28 Technical Orders (TOs)												
11.28.1 Technical Order System						A		B				
11.28.2 Use Indexes to locate information								b				
11.28.3 Use TOs when performing tasks						2b		b				
11.28.4 Establish and maintain TO files								b				
11.28.5 Requisition TOs								b				
11.28.6 Initiate TO improvement reports								b				
11.28.7 Use Automated Management (ATOM) for posting and tracking USAF TOs								b				

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
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		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
12. APPLIED PRINCIPLES OF PHYSICS												
TR: 60A Series												
12.1 Properties of Matter						B		B				
12.2 Laws of Motion						B		B				
12.3 Simple Machines						B		B				
12.4 Measurement Systems												
12.4.1 English System						B		B				
12.4.2 Metric System						B		B				
12.4.3 Convert between systems												
12.4.3.1 Mass	*					2b		b				
12.4.3.2 Volume	*					2b		b				
12.4.3.3 Lengths	*					2b		b				
12.4.3.4 Temperature						2b		b				
13. TOOLS AND EQUIPMENT												
TR: TOs 00-20-1, 00-20F-2, 11A Series, 11H3 Series, 12S10 Series, 14P3 Series, 31 Series, 11W3 Series, 60A Series; AND Commercial Manuals												
13.1 Common Handtools												
13.1.1 Select proper tools												
13.1.2 Use tools properly						2b						
13.1.3 Maintain tools												
13.2 Select, Use, and Return to operational status Specialized EOD tools												
13.2.1 Mk 1	*					2b						
13.2.2 Mk 2	*					2b						
13.2.3 Mk Series Remote Control Transporters	*					1a						
13.2.4 All-Purpose Remote Transport System	◆					1a/X		A				
13.2.5 Mk 26 FOL	*					2b						
13.2.6 Mk 31 JROD	*					2b						
13.2.7 Portable X-Rat Units												
13.2.7.1 Mk 32	*					2b						
13.2.7.2 Real Time Radiograph (RTR)	*					2b						
13.2.8 MX22	*					2b						
13.2.9 Valon/Mini Mine Detector	*					2b/A						
13.2.10 Global Positioning System	*					2b/X						
13.2.11 Assigned Tactical Radios	*					2b/X						
13.2.12 M82A1 Barrett	*					2b/X						
13.2.13 Assigned Bomb Suit	*					2b/A						
13.2.14 Bomb Blanket/Shield						2b/X						
13.2.15 Cameras						2b/X						
13.2.16 Field Fabricated Dearermer/Improvised Disposable Dearermer						2b/A						
13.2.17 Night Vision Equipment						2b/X						
13.2.18 ADM 300 Radiacs						2b/X						
13.2.19 AN-PDR 74 Radiacs						2b						
13.2.20 Assigned Generators												
13.2.21 Citadel												
13.2.22 Assigned SCBA												
13.2.23 Mk 40 Mod 0 UXO Standoff Disrupter (RE-70)												
13.2.24 Percussion Actuated Non-electric (PAN) Disrupter												
13.2.25 Mk 38 Mod 0 Small Caliber Dearermer												

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
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		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
13.2.26 Secure Satellite Telephone												
13.2.27 Level A & B Protective Suits												
13.2.28 Fiber optic Video Scope												
13.3 Periodic Maintenance of Specialized EOD Tools and Equipment												
13.3.1 Mk 1												
13.3.2 Mk 2												
13.3.3 Mk Series Remote Control Transporters												
13.3.4 All-Purpose Remote Transport System	◆											
13.3.5 Mk 26 FOL												
13.3.6 Mk 31 JROD												
13.3.7 Portable X-Rat Units												
13.3.7.1 Mk 32												
13.3.7.2 Real Time Radiograph (RTR)												
13.3.8 MX 22												
13.3.9 Valon/Mini-Mine Detector												
13.3.10 Global Positioning System												
13.3.11 Assigned Tactical Radios												
13.3.12 M82A1 Barrett												
13.3.13 Assigned Bomb Suit												
13.3.14 Bomb Blanket/Shield												
13.3.15 Cameras												
13.3.16 Field Fabricated Dearermer / Improvised Disposable Dearermer												
13.3.17 Night Vision Equipment												
13.3.18 ADM 300 Radiacs												
13.3.19 AN-PDR 74 Radiacs												
13.3.20 Assigned Generators												
13.3.21 Citadel												
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13.3.23 Mk 40 Mod 0 UXO Standoff Disrupter (RE-70)												
13.3.24 Percussion Actuated Non-electric (PAN) Disrupter												
13.3.25 Mk 38 Mod 0 Small Caliber Dearermer												
13.3.26 Secure Satellite Telephone												
13.3.27 Level A & B Protective Suits												
13.3.28 Fiber optic Video Scope												
14. EXPLOSIVES AND PROPELLANTS TR: DoD 6050.5M, TOs 11A-1-46, 11A-1-47, 11A-1-53 and 60A Series												
14.1 Identification							A		B			
14.2 Effects							A		B			
14.3 Application and Use							A		B			
14.4 Munitions Post Blast Analysis							A		B			
15. TREATMENT OF EXPLOSIVES AND RELATED HAZARDOUS MATERIALS TR: AFH 10-222, Vol 1; AFI 31-207, 32-7080; AFMAN 91-201, 32-4013; DoDD 5210.56; DoDI 4715.6; DoD 5100.76M, 6055.9-STD; 40 CFR, 49 CFR; TOs 11A-1-42, 11A-1-60, 11A-1-66, and 32 Series												
15.1 RCRA												
15.1.1 Transport							a		A		2b	

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		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
15.1.2 Treatment									A			2b
15.1.3 Store									A			2b
15.1.4 Inspect									A			
15.1.5 Certify									A			
15.1.6 Environmental Protection Consideration												
15.1.6.1 Identify Requirements for EPA Permits and Applications											b	2b
15.1.6.2 Identify Environmental Impacts caused by EOD							a/X				b	2b
15.1.6.3 Apply EPA regulations and directives pertaining to EOD operations												
15.1.6.3.1 Military Munitions Rule							a/X		A		b	2b
15.1.6.3.2 Range Rule							a/X		A		b	2b
15.1.6.4 Determine EPA documentation requirements for:												
15.1.6.4.1 Transportation											b	2b
15.1.6.4.2 Treatment											b	2b
15.1.7 Ammunitions Disposition Request (ADR) Operation												
15.1.7.1 Plan											b	2b
15.1.7.2 Perform												
15.2 Non-RCRA												
15.2.1 Transport	*						A		B			
15.2.2 Disposal	*						2b		B			
15.2.3 Store	*								b			
15.3 Perform grounding procedures	*						2b		b			
15.4 Apply Electromagnetic Radiation Precautions	*						2b		b			
15.5 Disposal Techniques												
15.5.1 Thermite	*						2b		b			
15.5.2 Burn	*						2b		b			
15.5.3 Detonation	*						2b		b			
15.5.4 Vent and Burn	*						2b/1a		b			
15.5.5 Demilitarization							2b/A		b			
15.6 Prepare Firing/Demolition Systems												
15.6.1 Electric	*						2b		b			
15.6.2 Non-Electric	*						2b		b			
16. CHEMICAL AND BIOLOGICAL WARFARE AGENTS, EQUIPMENT, AND PROCEDURES TR: AFIs 10-2501, 32-4007, 44 Series; AFJMAN 32-4003; DoD 6050.5M; TOs 11H Series, 14P4 Series, and 60 Series; Army FM 3-3, 3-9, 3-21, 3-100												
16.1 Chemical and Biological Agents												
16.1.1 Types							A					
16.1.2 Physical State							A					
16.1.3 Physiological Action							A					
16.1.4 Persistence							A					
16.2 Protective equipment												
16.2.1 Use assigned protective equipment	*						2b					
16.2.2 Use assigned detection equipment	*						2b					
16.2.3 Apply first aid and self aid							1a					
16.2.4 Use decontaminants and decontamination equipment							1a					
16.2.5 Transport hazardous chemical or biological munitions							1a					
16.2.6 Dispose of chemical or biological munitions							1a					

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
17. EXPLOSIVE ORDNANCE RECONNAISSANCE TR: AFI 32-3001; TOs 60A Series and Army FM 34-54												
17.1 Identify												
17.1.1 Munitions type	*					2b						
17.1.2 Fuzing type	*					2b						
17.2 Determine and observe safety precautions of munitions	*					2b						
17.3 Recognize terrain changes due to unexploded ordnance						a						
17.4 Locate UXOs												
17.4.1 Surface	*					2b						
17.4.2 Sub-surface	*					2b						
17.5 Technical Intelligence Information												
17.5.1 Collect Technical Intelligence Information	*					2b/X					B	
17.5.2 Prepare Technical Intelligence Reports						2b/X					2b	
17.6 Exploit Technical Intelligence												
17.6.1 Destructive											2b	
17.6.2 Non-Destructive											2b	
17.7 Manage captured material										b	2b	
18. AIR BASE RECOVERY TR: AFDD 2-3; AFI 10-211; AFH 10-222, Vol 1; AFPAM 10-219, Vol 5; and TOs 60A Series												
18.1 Concepts												
18.2 Responsibilities						A/X		B			B	
18.3 EOD procedures												
18.3.1 Pre-Attack												
18.3.2 Post-Attack								B			B	
18.3.3 Bare Base								B			B	
19. EOD EMERGENCY RESPONSE OPERATIONS TR: AFIs 10-207, 10-404, 10-801, 10-802, 10-2501, 32-3001, 32-4019; AFJI 32-3002; AFMAN 32-4004; AFPAM 10-219, Vol 10; DoDD 3025.1, 3025.12, 3150.5, 5100.3, 5525.5; DoD 3025.1M; 49 CFR; TOs 60 Series and 11N Series												
19.1 Identify requirements for Off-Base Responses	**							b		B	2b	
19.2 Identify USAF EOD responsibilities in operations involving support to Federal, State and local agencies								B				
19.3 Select incident categories	**							A			2b	
20. PROTECTION OF PERSONNEL AND PROPERTY TR: TOs 60A Series												
20.1 Determine Hazard Distances	*					2b						
20.2 Select appropriate use of protective measures for scenarios such as:												
20.2.1 Venting						B/X						
20.2.2 Buttressing						B/X						
20.2.3 Barricading						B/X						
20.2.4 Trenching						B/X						
20.2.5 Mounding						B/X						
20.2.6 Flooding						B/X						
20.3 Estimate Collateral Damage	*					2b/X						

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
21. ACCESS and RECOVERY TR: TOs 60A Series and Army FM 5-125												
21.1 Soil characteristics						A		B				
21.2 Ordnance Access						A		B				
21.3 Tie Knots, Bends, and Hitches						1a						
21.4 Perform Field Rigging and Improvised Hoisting						1a						
22. RENDER SAFE TECHNIQUES TR: TOs 60 Series												
22.1 Immobilize fuzes	*					2b						
22.2 Remove fuzes	*					2b						
22.3 Disable electrical components	*					2b						
22.4 Disrupt firing trains	*					2b						
22.5 Use Shaped Charges and other Explosive Techniques	*					2b						
23. CASE ATTACK PROCEDURES TR: TOs 60A Series												
23.1 Use SMUD Techniques	*					2b/X		b				
23.2 Use Thermal Techniques	*					2b		b				
23.3 Use Shaped Charges and Other Explosive	*					2b		b				
24. PRESIDENTIAL AND VIP SUPPORT TR: DoDDs 3025.13, 5210.55; AFI 32-3001; TOs 60A Series; United States Secret Service HDCM Manual												
24.1 Identify responsibilities						B						
24.2 Perform Mission Objectives						b/a						
24.3 Credentials/Identification Pins Accountability												
24.3.1 Perform Control Procedures						b/X						
24.3.2 Perform Destruction and Disposition						b/X						
25. RANGES TR: AFIs 13-212 Vol 1 & 2, 32-3001, 32-9004, TOs 11A-1-42, 11A-1-60, 60A Series, CFR 40 and 49												
25.1 Decontamination weapon ranges						1a		B		B	2b	
25.2 Proficiency, Training and Demolition Ranges												
25.2.1 Establish								b				
25.2.2 Maintain								b				
25.3 Develop Plans for Range Clearance Operations										B	2b	
26. U.S. AND FOREIGN DROPPED MUNITIONS TR: TOs 60 Series												
26.1 Bombs and Bomb fuzes												
26.1.1 Identify						2b						
26.1.2 Observe Safety Precautions						2b						
26.1.3 Render safe						2b						
26.1.4 Perform Disposal Procedures						2b						
26.2 Dispensers and Payload												
26.2.1 Identify						2b						
26.2.2 Observe Safety Precautions						2b						
26.2.3 Render Safe						2b						
26.2.4 Perform Disposal Procedures						2b						

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
27. U.S. AND FOREIGN PROJECTED MUNITIONS												
TR: TOs 60 Series												
27.1 Projectile and Projectile Fuzes												
27.1.1 Identify												
27.1.2 Observe Safety Precautions												
27.1.3 Render Safe												
27.1.4 Perform Disposal Procedures												
27.2 Grenades and Grenade Fuzes												
27.2.1 Identify												
27.2.2 Observe Safety Precautions												
27.2.3 Render Safe												
27.2.4 Perform Disposal Procedures												
27.3 Rockets and Rocket Fuzes												
27.3.1 Identify												
27.3.2 Observe Safety Precautions												
27.3.3 Render Safe												
27.3.4 Perform Disposal Procedures												
28. U.S. AND FOREIGN GUIDED MISSILE												
TR: TOs 60 Series												
28.1 Identify												
28.2 Observe Safety Precautions												
28.3 Render Safe												
28.4 Perform Disposal Procedures												
29. U.S. AND FOREIGN PLACED MUNITIONS												
TR: Joint Pub 3-15; TOs 60 Series and Army FM 20-32												
29.1 Minefield Concepts												
29.2 Landmines and Landmine Fuzes												
29.2.1 Locate												
29.2.2 Identify												
29.2.3 Observe Safety Precautions												
29.2.4 Render Safe												
29.2.5 Perform Disposal Procedures												
29.3 Booby Traps and Booby Trap Fuzes												
29.3.1 Locate												
29.3.2 Identify												
29.3.3 Observe Safety Precautions												
29.3.4 Render Safe												
29.3.5 Perform Disposal Procedures												
30. U.S. AND FOREIGN AIRCRAFT WEAPONS												
TR: TOs 00-105E-9, 60 Series, and NAVAIR 00-80R-14-1												
30.1 U.S. Aircraft Egress Systems and System Components												
30.1.1 Locate												
30.1.2 Identify												
30.1.3 Observe Safety Precautions												
30.1.4 Render Safe												
30.1.5 Perform Disposal Procedures												
30.2 Aircraft Armament												
30.2.1 Gun System												
30.2.1.1 Locate												

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
30.2.1.2 Identify	*							2b		B		
30.2.1.3 Observe Safety Precautions	*							2b		B		
30.2.1.4 Render Safe	*							2b		B		
30.3 Release and Launching System												
30.3.1 Locate	*							2b		B		
30.3.2 Identify	*							2b		B		
30.3.3 Observe Safety Precautions	*							2b		B		
30.3.4 Render Safe	*							2b		B		
30.4 Foreign Aircraft Weapon Systems												
30.4.1 Identify								A/X		B		
30.4.2 Observe Safety Precautions								A/X		B		
30.5 U.S. Aircraft Flare and Chaff Countermeasure Systems												
30.5.1 Identify	*							2b				
30.5.2 Observe Safety Precautions	*							2b				
30.5.3 Render Safe	*							2b				
30.5.4 Disposal								2b				
31. U.S. AND FOREIGN PYROTECHNICS TR: TOs 11 Series and 60 Series												
31.1 U.S. Pyrotechnics												
31.1.1. Identify								2b				
31.1.2 Observe Safety Precautions								2b				
31.1.3 Render Safe								2b				
31.1.4 Perform Disposal Procedures								2b				
31.2 Foreign Pyrotechnics												
31.2.1 Identify								A/X		B		
31.2.2 Observe Safety Precautions								A/X		B		
32. IMPROVISED DEVICES TR: DoDD 2000.12, 3150.5; DoD 0-2000.12H; TOs 60 Series												
32.1 Locate	*							2b				
32.2 Gain Access	*							2b				
32.3 Identify	*							2b				
32.4 Interpret Radiographs	*							2b				
32.5 Observe Safety Precautions	*							2b				
32.6 Render Safe	*							2b				
32.7 Perform Disposal Procedures								2b				
32.8 Perform Post Blast Analysis								a/X		b		
32.9 Identify Advanced Electronic Components								a/X		b		
32.10 Identify Advanced Diagnostics Techniques								a/X		b		
32.11 Advanced Render Safe Techniques												
32.11.1 High Energy Access and Disablement Device (HEADD)	◆							a/X				
32.11.2 Dragon	◆							a/X		B		
32.11.3 Explosive Entry Charges	◆							a/X		B		
32.12 Identify General Explosives												
32.12.1 Foreign and Domestic Commercial Explosives such as: Semtex, Binary, Dynamite								2b/X				
32.12.2 Foreign Military								B/X				
32.12.3 Improvised Explosives								A				
32.13 Weapons of Mass Destruction								A		B		
32.14 Force Protection Strategies										B		

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided													
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level									
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course								
33. NUCLEAR WEAPONS, EQUIPMENT, AND PROCEDURES TR: AFIs 36-2104, 44-102, 44-110, 91 Series; AFPD 21-2; DoDD 3150.2, 3150.8, 4540.5, 5210.42; DoD 3150.2M, 3150.8M, 5210.41M; DoDI 6055.8; TOs 11H Series, 11N Series, 14P Series, 60N Series, and Army FM 3-3																				
33.1 Nuclear Weapons																				
33.1.1 Identify	*							2b		b										
33.1.2 Hazards																				
33.1.2.1 Explosives								B		B										
33.1.2.2 Toxic								B		B										
33.1.2.3 Radiological								B		B										
33.1.3 Observe Safety Precautions	*							2b												
33.1.4 Fuzing and Firing Systems								B		B										
33.1.5 Render Safe								2b												
33.1.6 Package and Dispose of Components								2b												
33.2 Use protective clothing and equipment	*							2b		b										
33.3 Operate Radiac Instruments								2b		b										
33.4 Foreign Nuclear Systems Technologies								A												
34. U.S. AND FOREIGN UNDERWATER ORDNANCE TR: TOs 60 Series																				
34.1 Identify								1a												
34.2 Observe Safety Precautions								1a												
35. GENERAL CONTINGENCY RESPONSIBILITIES TR: AFIs 10-201; 10-207; 10-210, 10-211, 32-7062; AFH 32-4014, Vol 1; AFPAM 10-219, Vol 1-10; TOs 35E5-6-1, 35E4-94-1, 35E4-132-1; War Mobilization Plan (WMP)-1, Annex S																				
35.1. Prime BEEF (PB) Orientation TR: AFDD 42; AFIs 10-403, 51-401; AFPD 51-4; AFCESA/CEX - Prime BEEF Equipment Supply List (ESL); Geneva Convention Articles																				
35.1.1. The Prime BEEF (PB) Program																				
35.1.2. The Prime BEEF organization																				
35.1.3. Code of Conduct																				
35.1.4. The Law of Armed Conflict (LOAC)																				
35.1.5. The Prime BEEF equipment requirements																				
35.1.5.1. Consolidated Tool Kits (CTK)																				
35.1.5.2. Equipment Issue																				
35.1.5.3. Equipment Storage																				
35.1.5.4. Mobility bags																				
35.1.5.5. Weapons TR: AFIs 10-210, 31-101, 31-207; 36-2226, 91-202; AFPAM 10-219, Vol 8																				
35.1.5.5.1. Issue																				
35.1.5.5.2. Control																				
35.1.5.5.3. Courier																				
35.1.5.6. Team kits																				
35.1.5.7. Body armor																				
35.1.5.8. Tactical communication system																				
35.1.6. Individual responsibilities																				

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
35.1.7. Accountability												
35.1.8. Marshal Equipment and Personnel												
35.2. First Aid Techniques TR: AFIs 10-2501, 36-2238; AFJI 48-110; AFH 36-2218, Vol 2												
35.2.1. Individual's responsibilities for administering first aid												
35.2.2. Self aid and buddy care												
35.2.3. Know the basic lifesaving steps												
35.2.4. Move and transport injured personnel												
35.3. Field Sanitation & Hygiene Measures TR: AFIs 10-210; AFJI 48-110; AFDD 35; Army FM 21-10												
35.3.1. Personal hygiene measures												
35.3.2. Countermeasures for:												
35.3.2.1. Disease and pestilence												
35.3.2.2. Communicable diseases												
35.3.3. Sanitation requirements for:												
35.3.3.1. Field												
35.3.3.2. Kitchen & Mess												
35.4. Self Protection from Extreme Weather TR: AFPAM 10-219, Vol 5; Army FM 21-76												
35.4.1. Hot weather survival techniques												
35.4.2. Cold weather survival methods												
35.5. Force Protection TR: Joint Pub 1-02; AFH 10-222 Vol 3, 32-4014 Vol 4; AFPAM 10-219, Vol 2; DoD 0-2000.12-H; Joint Services Guide 5260												
35.5.1. Personal / Work Party Security TR: AFIs 10-215, 10-403, 10-404, 31-207, 31-301, 36-2226, 36-2209; AFPAM 10-219, Vol 3 ; Army FMs 7-8 & 21-75												
35.5.1.1. Combat skills												
35.5.1.2. Defensive tactics												
35.5.1.2.1. Cover and concealment												
35.5.1.2.2. Individual movement												
35.5.1.2.3. Weapons fire control												
35.5.1.2.4. Communications												
35.5.1.2.5. Field fortifications												
35.5.1.2.6. Guard placement/perimeter defense												
35.5.1.2.7. Recognition code system												
35.5.2. Air Base Defense (ABD) Interface TR: AFIs 31-301, 31-702												
35.5.2.1. Ground threats												
35.5.2.2. ABD concept												
35.5.2.3. Defensive tactics												
35.5.2.4. Force movement												
35.5.2.5. Weapons and fire control												
35.5.2.6. Tactical barriers												
35.5.2.7. Fighting/Protective Positions												

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided							
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level			
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course		
35.5.3. Convoy Techniques TR: AFIs 10-211, 31-101, 31-301, 36-2209, 36-2225; AFPAM 10-219, Vol 3; Army FMs 7-8, 7-10, 55-30														
35.5.3.1. Convoy principles														
35.5.3.1.1. Organization														
35.5.3.1.2. Command and Control														
35.5.3.1.3. Vehicle Preparation														
35.5.3.1.4. Security Forces interface														
35.5.3.1.5. Counter ambush techniques														
35.5.3.1.6. Defensive ambush measures														
35.5.4. Passive Defense Techniques TR: AFIs 10-210, 10-211, 10-2501, 31-101, 31-210, 31-301; AFH 31-302; AFMAN 10-401 Vol 1 & 2, 32-4005; AFPAM 10-219, Vol 2 & 5; AFPDs 31-1, 71-1; AFMD 39; AFDD 2-4.2														
35.5.4.1. Hardening/splinter protection														
35.5.4.2. Aircraft revetment TR: AFDD 2-4.2; AFIs 31-101, 31-210, 31-301; AFMAN 10-401 Vol 1 & 2, 32-1071 Vol 1-3, 32-4005; AFPAM 10-219, Vol 2														
35.5.4.2.1. Assemble kit-type revetments														
35.5.4.2.2. Improvised revetments														
35.5.4.3. Resource dispersal														
35.5.4.4. Camouflage, Concealment, and Deception (CCD) Techniques TR: AFPAM 10-219, Vol 2 & 3														
35.5.4.5. Terrorism TR: AFI 31-210, AFPAM 10-219, Vol 2; Joint Pub 1-02														
35.5.4.5.1. Awareness														
35.5.4.5.2. Countermeasures														
35.5.4.6. Chemical warfare protection TR: AFIs 10-210, 10-2501, 13-218, 21-101; AFH 32-4014, Vol 2; AFMAN 32-4005; AFPAM 10-219, Vol 3 & 4; AFVA 32-4012														
35.5.4.6.1. Individual protective equipment														
35.5.4.6.2. Wartime threat/protective actions/procedures														
35.5.4.6.3. Decontaminating vehicle/equipment														
35.5.4.6.4. Decontaminate shelter entry point														
35.5.4.6.5. USAF standard alarm signals TR: AFPAM 10-219, Vol 2; AFVA 32-4011														
35.5.4.6.6. Protective shelters														
35.6. Base Denial TR: AFIs 10-210, 10-211; AFPAM 10-219, Vol 3; Army FM 5-250; TO 11A-1-66; WMP-1, Annex S														
35.6.1. Base denial concept														
35.6.2. Denial methods														
35.7. Multi-Contingency/Warskills Training Requirements TR: AFI 10-210; WMP-1, Annex S														
35.7.1. Multi-warskilling concept														

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		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) RAM	(2) Course
35.7.2. Vehicle Qualifications TR: AFIs 10-210, 23-101, 25-101; AFPAM 10-219, Vol 3, 4, & 8; AFPD 25-1; AS 12; TOs 36A2 Series, 36M2 Series, 36A12 Series; WMP-1, Annex S												
35.7.2.1. Contingency vehicles and equipment responsibilities												
35.7.2.2. Obtain government driver's license												
35.7.2.3. Qualify on contingency vehicles												
35.7.2.4. General purpose vehicles (up to 14,000 GVW)												
35.8. Explosive Ordnance Reconnaissance (EOR) TR: AFI 10-210; AFPAM 10-219, Vol 3 & 4; Army FMs 21-16, 21-75												
35.8.1. Potential ordnance												
35.8.2. Marking procedures												
35.8.3. Reporting procedures												
35.8.4. Mass ordnance clearance												
35.9. Beddown shelters TR: AFPAM 10-219, Vol 2, 3 & 5; TOs 35E5-6-1, 35E4-94-1, 35E4-132-1; Army TM 10-4500-200-13												
35.9.1. Bare base concept												
35.9.2. Beddown package assets												
35.9.2.1. Harvest Eagle												
35.9.2.2. Harvest Falcon												
35.9.2.3. TEMPER Tent TR: AFPAM 10-219, Vol 2 & 5; AFH 10-222, Vol 1; 35E5-6-1	TO											
35.9.2.4. Alaska Small Shelter System (AKSSS) TO 35E5-6-11	TR:											
35.10. Rapid Runway Repair (RRR) TR: AFIs 10-210, 10-211, 10-2501; AFPAM 10-219, Vol 4; TOs 35E2-2-7, 35E2-3-1, 35E2-5-1												
35.11.1. Base Recovery concepts												
35.11.2. Damage assessment												
35.11.3. Damage reporting												
35.11.4. Rapid Runway Repair (RRR) concept												
35.11.4.1. RRR Philosophy												
35.11.4.2. AM-2 Matting												
35.11.4.3. Fiberglass Mat												
35.11.5. Spall Repair												

SECTION B - COURSE OBJECTIVE LIST (COL)

(This section used when developing lesson plans)

4. Measurement. Measurement of each objective is indicated as follows:

4.1. Written Test (W) - used to sample each knowledge objective and the knowledge components of performance objectives.

4.2. Performance Test (P) - used under specified conditions in a formal testing mode to measure student accomplishment of performance objectives after the teaching-learning activity has been completed.

4.3. Progress Checks (PC) - administered by the instructor during classroom or laboratory instruction time to assess the student's accomplishment of knowledge or performance objectives.

5. Standard. Standards for written and performance measurement are indicated in the objectives and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or parts of the behavior until satisfactory performance is attained.

6. Proficiency Level. Most task performance is taught to the "2b" proficiency level which means the student can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

7. Course Objective List. These objectives are listed in the sequence taught by Block of Instruction.

7.1. Initial Skills Course. A detailed listing of the initial skills course objectives may be obtained by written request to 366 TRS/DO, 727 Missile Road, Sheppard AFB TX 76311-2254.

7.2. 7-Skill Level Course. A detailed listing of the CE Craftsman Management course objectives may be obtained by written request to 366 TRS/DO, 727 Missile Road, Sheppard AFB TX 76311-2254.

SECTION C - SUPPORT MATERIALS

8. CerTest.

8.1. CerTest is a program that uses computer-based evaluation to ensure skilled craftsmen are available to meet the Air Force's changing needs. It enhances upgrade and qualification training by testing and evaluating an individual's knowledge of the principles and procedures in each specialty.

8.1.1. The program contains tests used to evaluate task knowledge received through different media such as paper products (text), videotapes, and computer-based programs.

8.1.2. CerTest is also a powerful training management tool. It can be used to find the strengths and weaknesses in an individual's training and experience. CerTest automatically records and updates all test results. The training manager can copy records to a disk so that an individual can bring current, accurate training information to a new unit; thereby helping the gaining supervisor evaluate the trainee's knowledge and experience.

8.2. CerTest also enables unit personnel to develop site-specific tests. These custom made tests standardize testing on tasks unique to a specific duty station and/or assignment. The program contains a graphics library that may be used along with a menu driven test editor to develop these site-specific tests.

8.3. CerTest also contains *optional* CDC pre-evaluation tools. Volume review exercises are available for progress checks after each volume is completed. After all volumes are completed in a set, the trainee may take the course review exercise before taking the final End of Course exam at the base training office. Commanders are encouraged to integrate these tools in their unit's OJT program.

8.4. CerTest has been adopted as the Air Force platform for future electronic CDC testing. The Air Force Institute for Distributive Learning (AFIADL) began using CerTest on 1 June 2000. Currently, all CE AFSs are allowed to use AFIADL's CerTest on installations where Base Test Control Facilities (TCFs) are equipped. See your UETM for further information.

8.5. The only CerTests material for the 3E8X1 AFSC are the *optional* CDC pre-evaluation tools.

SECTION D - TRAINING COURSE INDEX

9. Purpose. This section of the CFETP identifies training courses available for the specialty. Refer to web site <https://etca.randolph.af.mil/>, Education Training Course Announcement for complete information on the Air Force in-residence courses.

10. Air Force In-Residence/Mobile Training Team (MTT) Courses.

Course Number	Title	Developer
L3AQR3E831 000	EOD Preliminary Course	342 TRS
J5ABN3E831 002	EOD School	366 TRS
J3ACP3E871 001	EOD 7 Level Craftsman Course	366 TRS
J5AZO3E871 000	Joint Nuclear EOD Course	Sandia National Lab
J5AZN3E871 001	Advanced Access and Disablement (AA&D)	366 TRS
J5AZN3E871 002	Advanced EOD Management and Technology Course	366 TRS
AFIT MGT 433	EOD Flight Chief Course	Wright-Pat AFB, OH

11. Extension Course Institute (ECI) Courses.

Course Number	Title	Date
CDC 3E851 A	EOD Journeyman	Dec 96
CDC 3E851B	EOD Journeyman	Aug 97

12. Courses Under Development/Revision.

Course Number	Title	Date Due
CDC 3E851	EOD Journeyman (Revised)	Sep 03
J3ACP3E871 001	EOD Craftsman Course	Oct 03
J3ABP3E831-000	EOD Apprentice (AF Specific)	Oct 04
J3AZP3E871 001	Advanced IED Course	Jan 05

SECTION E - MAJCOM-UNIQUE REQUIREMENTS

13. Air Mobility Command

Course Number	Title	Location
AMC PR EOD	EOD Phoenix Readiness	Fort Dix AB, NJ

SECTION F - HOME STATION TRAINING

14. Purpose. The purpose of this section is to identify the tasks, training references, and training sources available in support of contingency/wartime training. Training ranges from knowledge-type training conducted in a classroom to task-oriented (hands-on) training conducted in the field. The tasks are general in nature and pertain to all civil engineer career fields. All civil engineer personnel are expected to receive this training even though the tasks may not be directly related to their AFS but support other CE AFSs.

14.1. Home Station Training (HST) Definition. HST is defined as training that is conducted at the individual's home station.

14.1.1. Category I (CAT-1) training consists of knowledge-level training such as Prime BEEF orientation, field sanitation, and health/hygiene. CAT-1 training is normally accomplished through briefings and the use of videos and other training aids.

14.1.1.1. The General Contingency Responsibilities (GCR) CD-ROM Training Package may be used for Category I contingency training. Successful completion of the lessons in the GCR CD-ROM will satisfy those SORTS requirements indicated in AFI 10-210, Chapter 4 and Attachment 2. It can be used for training and evaluation and is based on successful completion of one or more lessons completed in any order. One, some or all lessons may be completed at a given time. At the end of each lesson, the trainee will successfully complete the Lesson Review Exercise (LRE) and receive a certificate of training generated by the CD-ROM. The trainee must present the certificate or certificates to the Readiness Training Monitor to receive credit for the training.

14.1.1.2. Also available are various volumes of Home Station Training CD-ROM packages. These disks contain up to five presentations covering various CAT I topics. These are an additional method of providing required recurring training and topics covered are indicated in the training material column of Attachment 2 by the letters "PBCD".

14.1.1.3. For personnel assigned to a unit with a Prime BEEF mission for the first time, the 3-Level General Contingency Responsibilities CD-ROM is to be completed within the first 90 days of assignment. This product contains 17 lessons covering CAT I training topics. CAT I credit can be given for completion of these lessons for the same areas as the previously mentioned General Contingency Responsibilities product as indicated in AFI 10-210. Completion certificates should be presented to the Readiness Training Monitor for documentation of training.

14.1.1.4. The Unit should develop procedures to use these products to suit their needs. Remember these are tools to assist you in fulfilling CAT I training requirements. Document this training as outlined in AFI 10-210.

14.1.2. Category II (CAT-II) training is primarily task-oriented training such as weapons training, hard-back tent construction, and convoy security and the hands-on portion of

various CAT I topics. This training is listed in AFI 10-210, Attachment 3 and can be conducted during regularly required field training exercises.

14.2. Training References.

14.2.1. AFI 10-210, Prime Base Engineer Emergency Force (BEEF) Program.

Chapter 4 of AFI 10-210 identifies the Prime BEEF recurring training requirements. You can review this document by going to the Air Force publications web site. Attachment 2 is a list of HST CAT-I training requirements and Attachment 3 lists CATII training requirements.

14.2.2. Prime BEEF Contingency and Wartime Tasks - AFPAM 10-219, Vol 10. The Contingency Training Guide and Task Standard (AFPAM 10-219, Vol 10) lists basic wartime skills, knowledge, and the major common contingency/wartime tasks that Prime BEEF teams will be required to perform. The Contingency Training Guide and Task Standard identifies the AFSs associated with each task, required resources to accomplish the task, and the maximum time (under optimum conditions) expected to complete the task. The document also identifies the lead AFS on each task. This document is located on the Air Force Publications Web site.

14.2.3. AFPAM 10-219 Series. These documents assist in home station training and contingency responses. They replaced the AFP 93-12 series of planning documents and are available on the Air Force Electronic Publications Library (AFEPL).

14.2.4. Education Training Course Announcement (ETCA). Superseded AFCAT 36-2223. It is located at the following URL: <https://etca.randolph.af.mil/> and lists additional training/educational opportunities available for civil engineer personnel. This catalog contains information on formal education and training courses. The catalog is updated quarterly.

14.2.5. Readiness Training Package (RTP). RTPs are lesson plans for HST lessons. The RTPs are intended for those personnel who teach any area of HST. The index and RTPs are located on the Air Force Civil Engineer Support Agency (AFCESA) home page. The internet address for this information is <https://wwwmil.afcesa.af.mil/>.

14.2.6. Other Documents. AFH 10-222, Bare Base Development, Bare Base Facility Erection, Force Protection, Mechanical Systems, Bare Base Assets, Bare Base Generators and other volumes in the AFH 10-222 series are used for contingency training and operations. The AFH series are pocket guides providing information on bare base systems for all AFSs. AFH 10-222, Vol 4, Air Force Environmental Handbook for Contingency Operations, was developed to assist the environmental career field (3E4X3) on environmental quality issues during contingency and training operations. The handbook can be used by any AFS who works closely with environmental issues. Visit the Air Force Publications web site to download this information.

14.2.7. AFCESA/CEX. Maintains a comprehensive listing of audiovisual products that support the contingency training program. To view this listing as well as gain information

on how to order specific audiovisual products, please consult the AFCESA Contingency Support page.

14.3. Ancillary Training.

14.3.1. Team Exercise Sites (CAT III). All CE personnel who fill critical Unit Type Code (UTC) positions will receive team training at Silver Flag Exercise Sites (SFES) with the exception of members on headquarters staff augmentation UTCs, pavement evaluation UTCs, and generator repair and maintenance UTCs. There are currently three active SFES in the world today. They are located at Tyndall AFB, FL; Ramstein AB, Germany; and Kadena AB, Japan. Active duty personnel in critical UTC positions will be qualified at least every 30 months on the elements listed in table 4.3 of AFI 10-210. The Air Reserve Components (ARC) will be qualified at least every 45 months.

14.3.2. AEF/Spin-up Training. The AFCESA home page has the worldwide locator for the different types of training, locations, and Points Of Contact (POC) for equipment items that maybe encountered during contingency operations.

HOME STATION TRAINING
Category 1 - Classroom Training

Item	Task
1.	Prime Beef Orientation/General Contingency
1.1.	Prime Beef Program
1.2.	Prime Beef Missions
1.3.	Team Organization
1.4.	Team/Personal Equipment
1.5.	Training Requirements
1.6.	Code of Conduct
1.7.	Protection from Terrorism and Anti-Terrorism
1.8.	C ⁴ Security Awareness
1.9.	Base Emergency Preparedness Orientation/Unit Disaster Preparedness Program
1.10	Base Plans Familiarization
1.11.	Law of Armed Conflict
1.12	Explosive Ordnance Reconnaissance
2.	Field Sanitation and Health
2.1	Personal Hygiene
2.2	Control of Communicable Diseases
2.3	Kitchen and Mess Sanitation
2.4	Field Hygiene
2.5	Water Purification
2.6	Problems of Extreme Climates
2.7	Self Aid and Buddy Care
3.	Expedient Methods
3.1.	Expedient Beddown
3.1.1	Harvest Eagle
3.1.2	Harvest Falcon
3.1.3.	Temper Tent
3.1.4.	Environmental Protection
3.1.5.	Resource Dispersal
3.2.	Expedient Field Construction
3.2.1.	Camouflage, Concealment and Deception
3.3.	Expedient Repair
3.3.1.	Rapid Runway Repair (RRR) Overview
3.3.2.	Airfield Damage Assessment
3.3.3.	Command and Control
3.3.4.	Global Positioning System
3.4.	Expedient Destruction
3.4.1.	Base Denial

Figure 14.1

Item	Task
4.	Force Protection
4.1.	Personal Security/Work Party Security
4.2.	Convoy
4.3.	Air Base Defense
4.4.	Defensive Fighting Positions

Figure 14.1

HOME STATION TRAINING
Category 2 - Hands-on Training

Item	Task
1.	Prime Beef Orientation/General Contingency
1.1.	Vehicle/Equipment Operations (See AFI 10-210, Table 4.4)
1.2.	NBC Defense
1.3.	Explosive Ordnance Reconnaissance
2.	Field Sanitation/Health
2.1.	Personal Hygiene
2.2.	Kitchen and Mess Sanitation
2.3.	Field Hygiene
2.4.	Water Purification
2.5.	Self Aid and Buddy Care
2.6.	CPR
3.	Expedient Methods
3.1.	Beddown
3.1.1.	Temper Tent
3.1.2.	Preway Heater
3.2.	Field Construction
3.2.1.	Camouflage Netting
3.2.1.1.	Global Positioning System
4.	Force Protection
4.1.	Weapons/Small Arms Qualification
4.2.	Personal Security
4.3.	Work Party Security
4.4.	Convoy
4.5.	Defensive Fighting Positions
4.6.	Air Base Defense
5.	Deployment Support
5.1.	Cargo Preparation/Pallet Build-up/Hazardous Cargo Preparation
6.	Field Training
6.1.	Field Training Exercise
7.	Explosive Ordnance Disposal
7.1.	Aircraft Exercise
7.2.	Conventional Ordnance Exercise
7.3.	Improvised Explosive Device (IED) Exercise
7.4.	Air Base Recovery Exercise
7.5.	Broken Arrow Exercise
7.6.	Wartime Chemical Exercise
7.7.	Active Range Clearance Warskills

Figure 14.2

SECTION G - EOD STANDARD TRAINING PACKAGE

15. The objective of the Air Force Explosive Ordnance Disposal Standard Training Package is to ensure we provide our customers with the best EOD capability in DoD. We accomplish this by producing highly qualified and technically proficient EOD technicians capable of safely and efficiently performing the EOD peacetime and wartime missions. Air Force Instruction 32-3001 prescribes the following recurring training as the minimum training requirements for all active duty EOD personnel assigned below wing level.

15.1. Active duty EOD personnel assigned above wing level and those assigned special duty, i.e. instructor duty, Silver Flag Exercise Sites, or other authorized EOD billets, should accomplish Group I requirements as a minimum. Accomplishment of Group II through Group IV is not mandatory however, individuals are highly encouraged to complete additional training when possible.

15.2. Air National Guard (ANG) and Air Force Reserve (AFRES) EOD personnel will accomplish training as prescribed in AFI 32-3001.

16. Group I Training Requirements.

16.1 Monthly Qualification Training. Training or operations involving the use of cartridge-actuated tools, demolition explosives, or pyrotechnic devices used to perform render-safe procedures (RSP) or general demolition using live-explosives.

17. Group II Training Requirements.

17.1. Semiannual Training Requirements. Subjects listed in this section are taught in a classroom setting followed by practical (hands on) training for all team members. During the class room training tools are assembled, unique features and safety precautions briefed, and equipment applications and limitations discussed. Classroom instruction on procedures should coincide with Group IV practical exercise schedule.

Subjects

- MK 1 Remote Wrench
- MK 2 Dearmer
- Assigned robotics
- MK 26 Ordnance Locator
- MK 31 J-Rod
- Percussion Actuated Non-electric (PAN) Disrupter
- MK 40 Stadoff Dearmer
- MK 38 Small Caliber Dearmer
- MK-32 X-ray
- MX 22 Remote Firing Device (M122)
- Chem/Bio Detectors
- Assigned Tactical Radios
- Valon Model 1620H Mine Detector (MDM)
- AN/PSS-11 Global Positioning System (GPS)
- Air Base Recovery Procedures
- Assigned Bomb Suit
- Electromagnetic Radiation (EMR) Grounding/Shielding Procedures
- Explosive Properties and Effects
- Gagging and Immobilization Procedures
- General Demolition Procedures
- JSList/Ground Crew Ensemble
- Improvised Explosive Device (IED) Procedures

Semiannual Training Requirements - Subjects (cont'd)

Locally Assigned or Supported Aircraft
Locally Assigned or Supported Munitions
Unit Mobility/Generation Procedures
Assigned Mask
Protection of Personnel and Property and Collateral Damage Assessment
Self-Contained Breathing Apparatus (SCBA)
Shaped Charge Procedures
Standoff Munitions Disrupter (SMUD) Tool
Special Weapons
Tape and Line Procedures
Technical Intelligence Procedures
X-Rod Procedures
Advanced Radiographic System
Level A Protective Suit

18. Group III Training Requirements.

18.1. Annual Training Requirements. Classroom training on specific items listed.

Subjects:

Assigned Cameras
Chemical Operations and Disposal Procedures
Improvised Dearmer
IND Procedures
Thermite Burn Procedures
US MK-Series and M-Series Bombs
Foreign Bombs
US Bomb Fuzes (FMU-Series), (MK-Series), (M-Series)
Foreign Bomb Fuzes
US Guided Bomb Units
US CBU-systems
Foreign Bomblets/Submunitions
Foreign Dispensers
US Guided Missiles
Foreign Guided Missiles
US Rockets
US Rocket Fuzes
Foreign Rockets
Foreign Rocket Fuzes
US Land Mines
Foreign Land Mines
US Aircraft
US A/C Flares and Dispensers
US A/C Chaff and Dispensers
US A/C LAU-Series Launchers
US A/C MAU-Series Racks
US A/C CAD/PAD Items
Foreign Aircraft
US Projectiles
US Projectile Fuzes
Foreign Projectiles
Foreign Projectiles Fuzes
US Grenades
Foreign Grenades

Group III Training Requirements (cont'd)

US A/C Dispensed Markers
MK 15 Stethoscope or Martin Kaiser
Broken Arrow Procedures
Field Fabricated Dearmer
Night Vision Goggles
United States Secret Service HDCM Procedures

19. Group IV Training Requirements.

19.1. Practical Training and Exercise Requirements. Team exercises allow members to apply knowledge learned in the classroom to formulate plans, select and use equipment, manage personnel, and direct operations to resolve incidents or accident situations involving explosive ordnance. All EOD team member are required to participate in training exercises. Exercise will be conducted to enhance realism and incorporate all equipment and procedures associated with the scenario.

Section A - Semiannual

Aircraft Exercise
Conventional Exercise
Improvised Explosive Device (IED) Exercise

Section B - Annual

Base Recovery After Attack (BRAAT) Exercise
Broken Arrow Exercise
Wartime Chemical Exercise (including disposal)

Section C - Within 45 Months of graduation from Naval EOD School and within 60 months of award of the 7-skill level

Active Range Clearance (ARC) on a live ordnance tactical target

20. Group V Training Requirements.

20.1. Supplementary Training. Ancillary or other specialized training required by directive to perform general or specific additional military duties. This section may also be used to record training conducted in excess of STP requirements.

Subjects

Arming and Use of Force
Cargo Preparation
Contingency Operation/Mobility Planning and Execution System (COMPES)
Extinguisher Training
Fraud, Waste, and Abuse
Hazardous Communication (HAZCOM) Training
Hazardous/Sensitive Cargo
HAZMAT Levels 1-3 (for incidents involving explosive ordnance)
Confined Space
Local Environmental Protection Requirements
Pallet Build-Up
Personnel Reliability Program (PRP), Nuclear Surety, and Two-Man Concept
Weapons Safety
Dynamics of International Terrorism

Emergency Response to Terrorism (FEMA Course)
FBI/ATF Post Blast Analysis Course