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Parts I and II
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WATER AND FUEL SYSTEMS MAINTENANCE

Wage Grade Series
4201/4204/4206/4255/4742/4749/5406/5408/5409

CAREER FIELD EDUCATION AND TRAINING PLAN

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WATER AND FUEL SYSTEMS MAINTENANCE

WAGE GRADE SERIES 4201/4204/4206/4255/4742/4749/5406/5408/5409

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OPR: Air Force Civil Engineer Functional Advisory Council Wage Grade Panel
Certified by: Dave Perkins and Greg ZseDenny, Wage Grade Panel Chairs

PREFACE

This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements and training support resources for the Water and Fuel Systems Maintenance Wage Grade series. The CFETP will provide our wage grade personnel with a clear career path to success and instill rigor in all aspects of our Job Series training.

The CFETP consists of two parts used by the supervisor to plan, manage, and control training within the job series.

Part I provides information necessary for overall management of the job series.

- Section A provides general information about how the CFETP will be used.
- Section B identifies job series field progression information, duties and responsibilities, training strategies, and the job series path.

Part II includes the following:

- Section A identifies the Group Series Training Standard (GSTS) to include duties, tasks, and technical references to support civilian Wage Grade training programs.
- Section B identifies available support materials.
- Section C 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.

Note: At unit level, supervisors and trainers must use Part II to identify, plan, and conduct training commensurate with the overall goals of this guide.

Using guidance provided in the CFETP will ensure individuals in these wage grade series 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 the unit level, supervisors and trainers must 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.

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

Air Force Civil Engineer Center (AFCEC). The focal point for all Civil Engineer training development. All Force Development Managers (FDM) are located at AFCEC.

Air Force Institute of Technology (AFIT). Provides vital, relevant, and connected education that enables Airmen to be ready engineers and great leaders who know how to build sustainable installations to last while leading the change for the Civil Engineer career field. Course list can be accessed at http://www.afit.edu/cess/index.cfm.

Air Force Training Record (AFTR). Electronic training data base to document training and access is located at the CE-VLC.

Air Force Wage Grade Series Qualification Standard (AFWGSQS). A comprehensive task list that describes a particular series or duty position. Used by supervisors to document task qualifications. The tasks on the AFJQS are common to all persons serving in the described duty position.

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

Career Development Course (CDC). Self-paced, correspondence course published to provide the information necessary to satisfy the career knowledge component of on-the-job training (OJT). These courses are developed from references identified in the CFETP correlating with mandatory knowledge items listed in the Air Force Enlisted Classification Directory (AFECD). CDCs will contain information on basic principles, techniques, and procedures common to an AFSC. They do not contain information on specific equipment or tasks unless best illustrating a procedure or technique having utility to the entire AFSC.

CE Portal. The one-stop for all things Civil Engineering. Contains link to CE Force Development and Civilian Development Resource Center/Wage Grade Training Assets at: https://cs2.eis.af.mil/sites/10041/Pages/default.aspx.

Civil Engineer Virtual Learning Center (CE-VLC). Anytime, anyplace learning within the Civil Engineer Community consisting of instructional modules and skill-level awarding course material specific to the AFSC.

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

Computer-Based Training (CBT). A self-paced stand-alone computer product used to deliver interactive subject and task knowledge.

Distance Learning (DL). Includes Video Tele-seminar (VTS), Video Tele-training (VTT), and 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 on-site support of the formal school instructor. For instance, courses are offered by Air Force Institute of Technology, Air University, and Training Detachment.

Duty Position Tasks. Tasks identified by the workcenter supervisor as critical and common training tasks needed for the duty position and mission accomplishment.

Enlisted Professional Military Education (EPME). EPME provides a continuum of learning through progressive courses concentrated on developing airmanship and war-fighting skills. EPME plays a vital role in preparing Airmen for increased supervision, leadership, and management challenges. The three levels of Air Force EPME are Airman Leadership School, Noncommissioned Officer Academy and Air Force Senior Noncommissioned Officer Academy. EPME is available to Wage Grade civilians.

Functional Advisory Council Wage Grade Panel. The Wage Grade Panel is one of the three panels that make up the Civil Engineer Functional Advisory Council (FAC). The Wage Grade Panel charter is to work issues, develop policy, and provide recommendations to the FAC on matters related to civilian wage grade requirements. The Wage Grade Panel works through the FAC, in service to the CE Total Force community.

Just-in-Time (JIT) Training. Training required just prior to a selected deployment or tasking that delivers training necessary for mission accomplishment. It is typically predicated on hard-to-obtain contingency skill.

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

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

Regional Training Site (RTS). Total Force training centers managed by the Air National Guard.

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

Wage Grade Series Training. A mix of formal training (technical school) and informal training (on-the-job) to maintain and enhance wage grade series specific technical skills.

Group Series Training Standard (GSTS). Describes skills and knowledge that Airmen in a particular job series need on the job and for future career development opportunities. It further

serves as the overall training requirements for a Wage Series taught in the resident and nonresident courses.

Total Force. All collective Air Force components (Active Duty, Reserve, Guard, and Civilian elements) of the United States Air Force.

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

PART I

SECTION A - GENERAL INFORMATION

A1. Purpose: This CFETP provides a formalized tool for supervisors and managers of civilian wage grade employees to ensure required knowledge and skill levels are achieved, documented, and maintained. The CFETP also indicates training opportunities and methods for employee to gain leadership and management experience for career development.

A1.1. The CFETP has several purposes:

A1.1.1. Serves as a management tool to plan, manage, conduct, and evaluate a wage grade series training program. It is used to help supervisors identify training at the appropriate point in an individual's career.

A1.1.2. Identifies task and knowledge training requirements for this wage grade series and recommends education/training throughout each phase of an individual's career.

A1.1.3. Lists training courses available in this wage grade series and identifies sources of training and the delivery methods. It is used as a tool for collecting and demonstrating the need for training resources.

A2. Uses. Managers and supervisors may use the plan at all levels to ensure comprehensive and cohesive training programs are available for each individual in the wage grade series.

A2.1. Wage Grade Panel of the Functional Advisory Council will develop/revise formal resident, non-resident, 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 Air Force Civil Engineer Center Force Development Division (AFCEC/COF) to develop acquisition strategies for obtaining resources needed to provide the identified training.

A2.2. The Wage Grade Panel will ensure their training programs complement the CFETP training requirements and identify requirements that can be satisfied by OJT, resident training, contract training, or exportable courses.

A2.3. Supervisors guide each individual through completion of training specified in this plan.

A2.4. Each individual completes training requirements specified in this plan. The list of courses in Part II of this CFETP will be used as a reference to support training.

A3. Coordination and Approval. The Wage Grade Panel Chairs are the approval authority for the CFETP. The Wage Grade Panel will identify and coordinate on wage grade series training requirements. Using the list of courses in Part II, they will eliminate duplicate training

PART I

SECTION B - WAGE GRADE SERIES PROGRESSION AND INFORMATION

B1. Series Descriptions. See each individual's Core Personnel Document for the description.

B1.1**. Wage Grade Series Summary**. Installs, inspects, maintains, troubleshoots, modifies, repairs, and manages plumbing, water distribution, steam and condensate distribution, wastewater collection systems, water and wastewater treatment systems, fire suppression, backflow prevention systems, natural gas distribution systems, liquid fuel storage, distribution, and dispensing systems. Complies with environmental and safety regulations. Related DoD Occupational Subgroups: 172000.

B2. Skill and Career Progression. Adequate training for progression from the apprentice to the mechanic level, and possibly into a supervisory position play an important role in the Air Force's ability to accomplish its mission. It is essential everyone involved in training do their part to participate in, plan, manage, and conduct effective training. The guidance provided in this part of the CFETP will identify viable training at appropriate points in an individual's career.

B2.1. Apprentice/Helper (A/H).

B2.1.1. Upon completion of initial skills training, an employee may work with a trainer to enhance their knowledge and skills to perform at the highest attainable level within their series.

B2.1.2. Utilize the Career Development Course (CDC) and other exportable courses for subject and task fundamentals in the series.

B2.1.3. Encourage apprentice/helpers to continue academic education and begin EPME by enrolling in Airman Leadership School either in-residence or by correspondence course.

B2.2. Journeyman (J).

B2.2.1. Journeymen may continue to advance their skills by completing additional training. Upon completing training, they may be assigned job positions such as team leader, trainer, or task certifier. Journeymen can pursue leadership training and skills in order to qualify for potential advancement to Work Leader or Work Supervisor positions.

B2.2.1.Encourage journeyman to enroll in the Noncommissioned Officer Academy (NCOA) either in-residence or by correspondence course.

B2.3. Craftsman (C).

B2.3.1. Craftsmen may continue to advance their skills by completing additional training. They may be assigned job positions such as team leader, trainer, or task certifier Craftsmen are encouraged to pursue leadership training and skills in order to qualify for potential advancement to Work Leader or Work Supervisor positions.

B2.3.2. Encourage craftsmen to continue academic education and complete Noncommissioned Officer Academy (NCOA) either in-residence or by correspondence course.

B2.3.3. A Master Craftsman is typically graded higher than WG-10 where skills, knowledge and abilities require higher technical abilities than standard craftsmen. They are duty/location specific and not for all job series.

B2.4. Work Leader (WL).

B2.4.1. A Work Leader can be expected to perform limited functions of a First Line Supervisor or act as a Team Lead.

B2.4.2. Completion of AFIT Civilian Supervisors Course (WMGT 571) is highly encouraged.

B2.4.3. Should pursue increased knowledge of budget, manpower, resources, and personnel management.

B2.4.4. Recommend pursuit of additional higher education and completion of courses outside of their job series for career broadening opportunities.

B2.4.5. Encourage Work Leader to continue academic education and complete Noncommissioned Officer Academy (NCOA) either in-residence or by correspondence course.

B2.5. First Line Supervisor.

B2.5.1. A supervisor can be expected to fill positions such as the Element Chief or Special Projects Supervisor.

B2.5.2. Completion of AFIT Civilian Supervisors Course (WMGT 571) is highly encouraged.

B2.5.3. Should pursue increased knowledge of budget, manpower, resources, and personnel management.

B2.5.4. Recommend pursuit of additional higher education and completion of courses outside of their job series for career broadening opportunities.

B2.5.5. Encourage supervisors to continue academic education and complete Senior Noncommissioned Officer Academy (SNCOA) by correspondence.

B3. Correspondence Course Directions. Nonresident attendance for professional military education courses is accomplished through the Air Force Portal.

B3.1. Login to the AF Portal (https://www.my.af.mil/).

B3.2. Copy and paste the URL https://www.my.af.mil/aurepmprod/auportal/welcome.AirUniversity into your browser.

B3.3. Create an account and/or login.

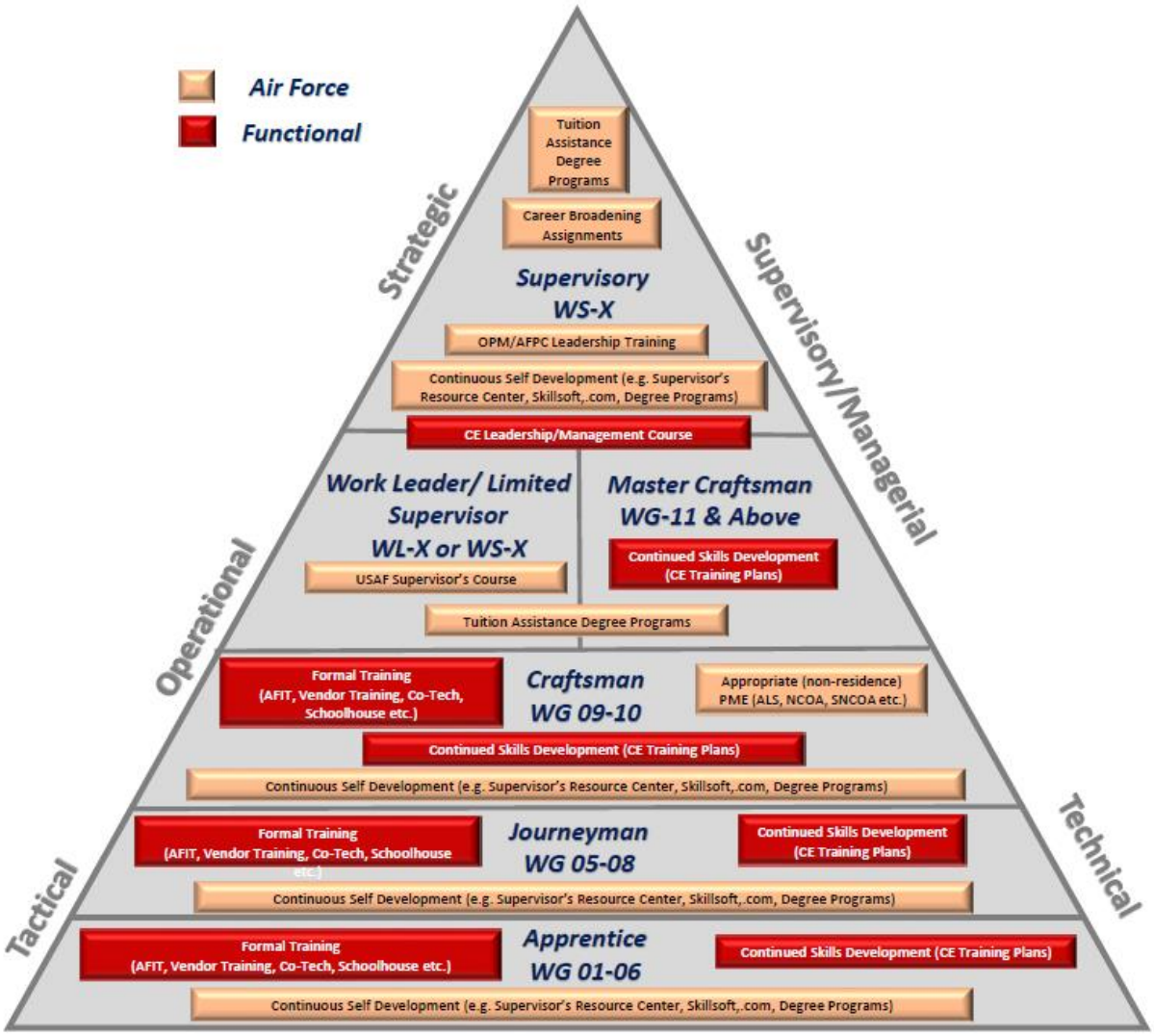
B3.4. Once logged in, "Distance Learning" on the left hand side.

B3.5. Select the appropriate course.

PART I

B4. Wage Grade Career Field Pyramid.

Figure 1.



PART II

SECTION A - GROUP SERIES TRAINING STANDARD

A1. **Purpose.** The CFETP is designed to be a tool for supervisors to use in assessing the skill level of current and new employees. The CFETP may be used to document training and proficiency of the employee on associated task/s by the supervisor or certified trainer.

A1.1. **Column 1 (*Tasks, Knowledge, and Technical References*).** Lists the most common tasks, knowledge, and supporting technical references (TR) necessary for Airmen to perform duties in the Apprentice, Journeyman, Craftsman, and Supervisor level.

A1.2. **Column 2 (*Tasks and Proficiency Codes*)**. Identifies duty position tasks (series training requirements) with a proficiency code and indicates training requirements. It shows the proficiency to be demonstrated on the job by the employee as a result of training on the task, knowledge and the career knowledge provided by formal courses, CDC, distance learning (DL) web-based training (WBT) and AFQTPs. CDC listing maintained by the unit education and training manager for current CDC listings.

A1.3. **Column 3 (*Certification of Training*)**. Used to record completion of tasks and knowledge training requirements. Task certification requires the task to be trained by a trainer designated by the supervisor. The trainer can be either civilian or military. Use the automated training record application to document individual qualifications. The training start and completion date are documented, the task is signed by the trainee and either the workcenter supervisor, a Master Sergeant (or above) or the unit training manager. This action will complete the task certification.

Note: The "trainer" signing the record MUST be the workcenter supervisor, work leader, a Master Sergeant (or above) or the Unit Training Manager. This person does not necessarily train the task, but will ensure the training is conducted by a qualified trainer prior to completing task certification.

Note: If a workcenter supervisor, work leader, a Master Sergeant (or above) or the unit training manager are not available in a shop or unit to certify a task, the Operations Flight deputy commander will designate a certifier within the flight and grant the UTM role in AFTR so as to certify training tasks in AFTR. This person does not necessarily train the task, but will ensure the training is conducted by a qualified trainer prior to completing task certification.

A1.4. **Qualitative Requirements.** Contains the proficiency code key used to indicate the level of training and knowledge provided by WBT, resident training and career development courses.

A1.5. **Job Qualification Standard (JQS).** The Group Series Training Standard (GSTS) becomes the JQS for OJT when entries are made in the GSTS. For OJT, the tasks in Column 1 are trained and qualified to the go/no go level. "Go" means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct use of procedures. AFQTPs, when available, shall be used to identify Air Force standardized procedures. When used as a JQS, the following requirements apply:

A1.5.1. **Documentation.** Document and certify completion of training.

PART II

A1.6. **Transcribing from previous versions to the new CFETP.** Most items should transcribe automatically during the update of the new CFETP if AFTR is used to document training and certifications. The supervisor must conduct a review of the new GSTS to identify any new duty position tasks and add those tasks to their duty positions.

A1.6.1. **Previous training certification not listed.** If previous training certification is not listed in the individual record, select the parent task to be transcribed, check the task title(s) block, and click on the transcribe button. Enter the date of the original certification and sign off the task(s). The trainee will then sign off the task(s) to finalize the transcription of previous training certification.

A1.6.2. **Transcribing external training certification.** If a trainee attended a formal training course and received appropriate accreditation, select the 623 III section of the user's automated training record and locate the course title in the master task list, then enter the completion date. If the course title is not listed, contact the UTM to have it loaded from the master catalog. If it is not listed in the master catalog contact the Force Development Manager at AFCEC to have it loaded in the master catalog. Update MyBiz with additional training certificates through the self-certification process.

A1.6.3. **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. AFQTPs, when available, shall be used to identify Air Force standardized procedures.

A2. Recommendations. This training plan is a living document. Comments and recommended changes are welcome. Recommendations for changes must be coordinated through the FDM and Functional Advisory Council (FAC) Wage Grade Panel for adjudication.

SECTION B - SUPPORT MATERIAL

B1. Air Force Qualification Training Packages.

B1.1. For a complete list of up-to-date AFQTPs applicable to the series, go to CE-VLC.

B1.2. The UTM or supervisor can download paper-based AFQTP's. Paper-based AFQTP's can be found on the CE-VLC under the Library link and then by selecting Resources.

B1.2.1. In addition to the paper-based AFQTPs there are web-based courses or assessments developed for certain tasks that are available on the CE-VLC under the Course List link and Group Series topic area.

B1.3. CDC listings are maintained by the unit education and training manager for current CDC listings.

PART II

SECTION C – EDUCATION AND TRAINING COURSE INDEX

C1. Purpose. This section of the CFETP identifies training courses available for mechanical systems series. Refer to Education and Training Course Announcements (ETCA) web site for information on the Air Force in-residence courses. The web site address is https://etca.randolph.af.mil/.

J3ABR3E431 03AB - Water and Fuel Systems Maintenance Apprentice
J3AZR3E451 05TA - Liquid Fuel Storage Tank Entry (Supervisor)
J3AZR3E451 04AB - Fuel Systems Maintenance Technician
J3AZR3E451 01FB - Fire Suppression Systems Maintenance
J7AZT3E451 03BB - Backflow Prevention Tester Training and Certification (MTT)

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Wage Grade Panel Co-Chair

Attachments:
1. Qualitative Requirements (Proficiency Code Key)
2. Wage Grade Group Series Training Standard (GSTS)
3. Locally Developed Training Supplement

Attachment 1

This Block Is For Identification Purposes Only		
Name Of Trainee		
Printed Name (*Last, First, Middle Initial*)	**Initials (Written)**	
Printed Name Of Trainer/Training Official And Written Initials		
N/I	*N/I*	
N/I	*N/I*	
N/I	*N/I*	
N/I	*N/I*	
N/I	*N/I*	
N/I	*N/I*	
N/I	*N/I*	
N/I	*N/I*	

Explanations

- This mark is used to indicate training is provided in a formal course.

Behavioral Statement GSTS Coding System	
Code	Definition
K	Subject Knowledge Training - The verb selection identifies the individual's ability to identify facts, state principles, analyze, or evaluate the subject.
P	Performance Training - Identifies that the individual has performed the task to the satisfaction of the trainer/certifier; however, the individual may not be capable of meeting the field requirements for speed and accuracy.
pk	Performance Knowledge Training - The verb selection identifies the individual's ability to relate advanced facts, procedures, operating principles, and operational theory for the task.
-	Assumes element knowledge and/or proficiency at the higher level

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES								
1.1. Accomplish CE 5-Level Core Concepts Course	K	-	-	-				
1.2. Accomplish CE 7-Level Core Concepts Course			K	-				
2. PUBLICATIONS								
2.1. Technical orders (TO) TR: TO 00-5-1								
2.1.1. Organization/Format	K	P	pk	-				
2.1.2. Use technical orders		P	pk	-				
2.2. Military		P	pk	-				
2.3. Commercial		P	pk	-				
3. AFS SPECIFIC HEALTH and SAFETY TR: AFPDs 91-2; AFIs; 91-203; 32-1064, 32-7086, 48-137, Code of Federal Regulations Part 1926 Subpart P								
3.1. Hazards of AFSC	K	-	-	-				
3.2. Safety Standards for AFSC	K	-	-	-				
3.3. Individual responsibilities	K	-	-					
3.4. Respiratory Protection Program	K	P	pk	-				
3.5. Lockout Tagout Program	K	P	pk	-				
3.6. Mechanical equipment	K	-	-	-				
3.7. Flammables	K	-	-	-				
3.8. Chemicals and chemical solutions	K	-	-	-				
3.9. Remove victim from energized circuit	pk	-	-					
3.10. Apply first aid procedures for electrical shock	K	pk	pk	-				
3.11. Manual lifting awareness	K	P	pk	-				
3.12. Condition tags		K	pk	-				
3.13. Initial Federal Hazard Communication Training Program (FHCTP)		K	pk	-				
3.14. Toxic and explosive gases	K	-	pk	-				
3.15. Fuel Hazards	K	-	pk	-				
3.16. Arc Flash Safety	K	P	pk	-				
3.17. Confined Space Entry	K	P	pk	-				
4. TOOLS AND EQUIPMENT TR: TO 00-25-172, TO 32-1-2								
4.1. Maintain hand/power tools	K			-				

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
4.2. Use common hand/power tools	K	P	pk	-				
4.3. Use Specialized hand/power tools	K	P	-	-				
4.4. Shop equipment								
4.4.1. Characteristics/Safety								
4.4.1.1. Ladders	K	-	-	-				
4.4.1.2. Shoring	K	-	-	-				
4.4.1.3. Scaffolding	K	-	-	-				
4.4.1.4. Laboratory	K	-	-	-				
4.4.1.5. Fall protection	K	-	-	-				
4.4.2. Use Shop equipment								
4.4.2.1. Ladders	K	P	pk	-				
4.4.2.2. Shoring	K	P	pk	-				
4.4.2.3. Scaffolding	K	P	pk	-				
4.4.2.4. Laboratory	K	P	pk	-				
4.4.2.5. Fall protection	K	P	pk	-				
4.4.3. Care Shop equipment	K	P	pk	-				
4.5. Portable Air Compressor								
4.5.1. Characteristics	K	-	-	-				
4.5.2. Inspect	K	P	-	-				
4.5.3. Operate	K	P	pk	-				
4.6. Vapor/oxygen/toxicity indicator	K	P	-	-				
5. PROJECT PLANNING TR: Uniform Plumbing Code (UPC); International Plumbing Code (IPC); AFI 32-1001								
5.1. Use building construction plans to identify								
5.1.1. Installation procedures	K	P	pk	-				
5.1.2. Materials needed	K	P	pk	-				
5.1.3. Types of systems	K	P	pk	-				
5.2. Prepare working sketches		P	pk	-				
5.3. Prepare AF Form 103, Work Clearance Request	K	-	-	-				
5.4. Prepare bill of materials request	K	P	pk	-				
5.5. Preventive Maintenance (PM)	K	P	pk	-				
6. AFS FUNDAMENTALS TR: UPC, STANAG 7102; UFC3-460-03, 3-570-06								
6.1. Mathematics	P	-	-	-				
6.2. Metric system	K	-	P	-				

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
6.3. Biology	K	-	P	-				
6.4. Chemistry	K	-	P	-				
6.5. Water treatment	K	-	P	-				
6.6. Pipe Fitting								
6.6.1. Measure	K	P	pk	-				
6.6.2. Cut	K	P	pk	-				
6.6.3. Ream	K	P	pk	-				
6.6.4. Thread	K	P	pk	-				
6.6.5. Solder/sweat	K	P	pk	-				
6.6.6. Solvent weld	K	P	pk	-				
6.7. Tubing								
6.7.1. Types	K	-	-	-				
6.7.2. Fittings	K	-	-	-				
6.7.3. Fabricate tubing systems	K	P	pk	-				
6.8. Locate components using:								
6.8.1. Utility maps	K	P	pk	-				
6.8.2. Electronic equipment		K	pk	-				
6.9. Cathodic Protection Systems		K	pk	-				
6.10. Inspect for corrosion		K	pk	-				
6.11. Physical Characteristics								
6.11.1. Hydraulics		K	pk	-				
6.11.2. Fuel		K	pk	-				
6.11.3. Water		K	pk	-				
6.11.4. Mechanics		K	pk	-				
7. WATER SYSTEMS TR: UFC 3-230-02; UPC; Ken Kerri, Water Distribution System Operation and Maintenance; AFI32-1067; IPC; AWWAs M11, M14, M17, M23								
7.1. Fundamentals of Water Distribution	K	-	-	-				
7.2. Operation of water systems								
7.2.1. Wells	K	P	pk	-				
7.2.2. Booster stations	K	P	pk	-				
7.2.3. Storage tanks	K	P	pk	-				
7.2.4. Chemical feeders	K	P	pk	-				
7.2.5. Metering equipment	K	P	pk	-				
7.3. Install interior water system piping and components								
7.3.1. Steel	K	P	pk	-				

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
7.3.2. Plastic	K	P	pk	-				
7.3.3. Copper	K	P	pk	-				
7.3.4. PEX	K	P	pk	-				
7.3.5. Pipe hangers/supports	K	P	pk	-				
7.3.6. Structural openings	K	P	pk	-				
7.4. Inspect interior water system				-				
7.4.1. Perform pressure test	K	P	pk	-				
7.4.2. Troubleshoot pressure loss		K	pk	-				
7.4.3. Locate leaks	K	P	pk	-				
7.5. Interior water system maintenance								
7.5.1. Thaw frozen water pipes using:								
7.5.1.1. Heaters		P	pk	-				
7.5.1.2. Torches		P	pk	-				
7.5.1.3. Electrical thawers		P	pk	-				
7.5.2. Winterize piping system	K	P	pk	-				
7.5.3. Repair interior water system piping								
7.5.3.1. Steel	K	P	pk	-				
7.5.3.2. Plastic	K	P	pk	-				
7.5.3.3. Copper	K	P	pk	-				
7.5.3.4. PEX		P	pk	-				
7.6. Backflow Prevention Devices				-				
7.6.1. Characteristics								
7.6.1.1. Air gap	K	P	pk	-				
7.6.1.2. Atmospheric vacuum breaker		P	pk	-				
7.6.1.3. Pressure type vacuum breaker		P	pk	-				
7.6.1.4. Double check valve	K	P	pk	-				
7.6.1.5. Reduced pressure principle devices		P	pk	-				
7.6.2. Install								
7.6.2.1. Air gap		P	pk	-				
7.6.2.2. Atmospheric vacuum breaker		P	pk	-				
7.6.2.3. Pressure type vacuum breaker		P	pk	-				
7.6.2.4. Double check valve		P	pk	-				
7.6.2.5. Reduced pressure principle device		P	pk	-				
7.6.3. Inspect								
7.6.3.1. Air gap	K	P	pk	-				
7.6.3.2. Atmospheric vacuum breaker		P	pk	-				
7.6.3.3. Pressure type vacuum breaker	K	P	pk	-				

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
7.6.3.4. Double check valve	K	P	pk	-				
7.6.3.5. Reduced pressure principle device	K	P	pk	-				
7.6.4. Repair								
7.6.4.1. Air gap		P	pk	-				
7.6.4.2. Atmospheric vacuum breaker		P	pk	-				
7.6.4.3. Pressure type vacuum breaker		P	pk	-				
7.6.4.4. Double check valve		P	pk	-				
7.6.4.5. Reduced pressure principle device		P	pk	-				
7.7. Fire hydrants								
7.7.1. Characteristics		P	pk	-				
7.7.2. Install		P	pk	-				
7.7.3. Inspect		P	pk	-				
7.7.4. Repair		P	pk	-				
7.7.5. Area flow test								
7.7.5.1. Conduct static pressure test	K	P	pk	-				
7.7.5.2. Conduct residual and velocity tests	K	P	pk	-				
7.7.5.3. Calculate test data		P	pk	-				
7.8. Install exterior water system piping and components								
7.8.1. Plastic	K	P	pk	-				
7.8.2. Steel	K	P	pk	-				
7.8.3. Tap water main		P	pk	-				
7.8.4. Disinfect using chlorine	K	P	pk	-				
7.9. Repair exterior water system piping								
7.9.1. Plastic	K	P	pk	-				
7.9.2. Steel	K	P	pk	-				
7.9.3. Compression couplings	K	P	pk	-				
7.9.4. Clamps	K	P	pk	-				
8. WASTEWATER SYSTEMS TR: UPC; Ken Kerri, Operation and Maintenance of Wastewater Collection and Disposal Systems; UFCs 3-240-01, 3-240-02, 3-240-03N; ETL 13-2, AFI32-1066, 32-1067; AFPAM10-219V7								
8.1. Fundamentals of collection								
8.1.1. Sanitary sewer	K	P	pk	-				

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
8.1.2. Industrial waste (grease traps, oil water separators)	K	P	pk	-				
8.1.3. Storm Drains	K	P	pk	-				
8.1.4. Sewage lift stations								
8.1.4.1. Dry well	K	P	pk	-				
8.1.4.2. Wet well	K	P	pk	-				
8.2. Collection system piping								
8.2.1. Install cast iron pipe		P	pk	-				
8.2.2. Install plastic pipe	K	P	pk	-				
8.2.3. Establish trench grade	K	P	pk	-				
8.2.4. Establish pipeline slope	K	P	pk	-				
8.2.5. Backfill trenches	K	P	pk	-				
8.2.6. Drain excavations	K	P	pk	-				
8.3. Repair wastewater system piping								
8.3.1. Interior	K	P	pk	-				
8.3.2. Exterior	K	P	pk	-				
8.4. Inspect exterior collection systems								
8.4.1. Manholes	K	P	pk	-				
8.4.2. Leaks	K	P	pk	-				
8.4.3. Infiltration/inflow		P	pk	-				
8.4.4. Grease traps	K	P	pk	-				
8.4.5. Oil/water separator		P	pk	-				
8.5. Use								
8.5.1. Plunger	K	P	pk	-				
8.5.2. Hand/closet auger	K	P	pk	-				
8.5.3. Power auger	K	P	pk	-				
8.5.4. Chemicals		P	pk	-				
8.5.5. Sewer augers	K	P	pk	-				
8.5.6. Commercial sewer jet	K	P	pk	-				
8.6. Wastewater treatment								
8.6.1. Primary		K	Pk	-				
8.6.2. Secondary		K	pk	-				
8.7. Wastewater Disposal								
8.7.1. Characteristics								
8.7.1.1. Urine soakage pit	K	-	-	-				
8.7.1.2. Lagoons	K	-	-	-				
8.7.1.3. Evaporation beds	K	-	-	-				
8.7.1.4. Septic tanks	K	-	-	-				
8.7.1.5. Leach fields	K	-	-	-				

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
8.7.2. Install								
8.7.2.1. Urine soakage pit		P	pk	-				
8.7.2.2. Lagoons		P	pk	-				
8.7.2.3. Evaporation beds		P	pk	-				
8.7.2.4. Septic tanks	K	P	pk	-				
8.7.2.5. Leach fields	K	P	pk	-				
8.7.3. Maintain								
8.7.3.1. Urine soakage pit	K	P	pk	-				
8.7.3.2. Lagoons	K	P	pk	-				
8.7.3.3. Evaporation beds	K	P	pk	-				
8.7.3.4. Septic tanks w/ leach fields	K	P	pk	-				
8.7.3.5. Specialized systems	K	-	-	-				
9. SWIMMING POOLS TR: UFC 3-230-02; AFI 48-114								
9.1. Operate		P	pk	-				
9.2. Maintain	K	P	pk	-				
9.3. Repair		P	pk	-				
10. NATURAL GAS SYSTEMS TR: AFI 32-1067; Guidance Manual for Operators of Small Natural Gas Systems; 49 CFR Part 192								
10.1. Characteristics		K	Pk	-				
10.2. Federal and state regulations		K	pk	-				
10.3. Inspect gas system components and piping		K	Pk	-				
10.4. Maintain gas system components and piping		K	Pk	-				
10.5. Repair gas system components and piping		K	pk	-				
10.6. Locate and isolate leaks	K	P	pk	-				
11. FIRE SUPPRESSION TR: National Fire Protection Association Pamphlets; UFCs 3-600-01,3-601-02								
11.1. Characteristics								
11.1.1. Wet pipe systems	K	-	-	-				
11.1.2. Dry pipe systems	K	-	-	-				
11.1.3. Deluge systems	K	-	-	-				
11.1.4. Foam systems	K	-	-	-				
11.1.5. Specialized systems	K	-	-	-				
11.2. Test								
11.2.1. Wet pipe systems	K	P	pk	-				

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
11.2.2. Dry pipe systems	K	P	pk	-				
11.2.3. Deluge systems		K	pk	-				
11.2.4. Foam systems		K	pk	-				
11.2.5. Specialized systems		K	pk	-				
11.3. Repair								
11.3.1. Wet pipe systems	K	P	pk	-				
11.3.2. Dry pipe systems	K	P	pk	-				
11.3.3. Deluge systems		K	pk	-				
11.3.4. Foam systems		K	pk	-				
11.3.5. Specialized systems		K	pk	-				
12. ELECTRICAL SYSTEMS TR: AFI 32-1064; UFC 3-560-01								
12.1. Electrical fundamentals								
12.1.1. Electron Theory	K	-	-	-				
12.1.2. Programmable logic controller (PLC)		K	pk	-				
12.1.3. Use electrical schematics	K	P	pk	-				
12.1.4. Motors		K	pk	-				
12.1.5. Inspect electrical components/circuits		K	pk	-				
12.1.6. Troubleshoot electrical systems		K	pk	-				
12.1.7. Replace electrical components		K	pk	-				
12.1.8. Connect and disconnect motors	K	P	pk	-				
12.2. Use test equipment to measure								
12.2.1. Voltage	K	P	pk	-				
12.2.2. Resistance	K	P	pk	-				
12.2.3. Current	K	P	pk	-				
13. FIXTURES AND PLUMBING COMPONENTS TR: UPC; IPC; Manufacturer Specifications								
13.1. Characteristics								
13.1.1. Lavatories	K	-	-	-				
13.1.2. Faucets	K	-	-	-				
13.1.3. Water closets								
13.1.3.1. Floor mount	K	-	-	-				
13.1.3.2. Wall hung	K	-	-	-				
13.1.4. Urinals								
13.1.4.1. Wall hung	K	-	-	-				
13.1.4.2. Pedestal	K	-	-	-				

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
13.1.5. Showers								
13.1.5.1. Individual	K	-	-	-				
13.1.5.2. Gang	K	-	-	-				
13.1.5.3. Tub/shower	K	-	-	-				
13.1.6.1. Industrial sinks								
13.1.6.1.1. Scullery	K	-	-	-				
13.1.6.1.2. Kitchen	K	-	-	-				
13.1.6.1.3. Utility	K	-	-	-				
13.1.7. Traps								
13.1.7.1. Common seal	K	-	-	-				
13.1.7.2. Deep seal	K	-	-	-				
13.1.8. Mixing valves								
13.1.8.1. Manual		-	-	-				
13.1.8.2. Pressure balancing		-	-	-				
13.1.8.3. Thermostatic		-	-	-				
13.1.9. Flushometers								
13.1.9.1. Diaphragm	K	-	-	-				
13.1.9.2. Piston	K	-	-	-				
13.1.10. Drinking fountains								
13.1.10.1. Wall hung	K	-	-	-				
13.1.10.2. Pedestal	K	-	-	-				
13.1.10.3. Electrically cooled	K	-	-	-				
13.1.11. Water Heaters								
13.1.11.1. Electric	K	-	-	-				
13.1.11.2. Gas		K	-	-				
13.1.11.3. Tankless	K	-	-	-				
13.1.12. Food grinder								
13.1.12.1 Industrial	K	-	-	-				
13.1.12.2. Domestic	K	-	-	-				
13.1.13. Emergency eyewash/shower	K	-	-	-				
13.2. Install								
13.2.1. Lavatories	K	P	pk	-				
13.2.2. Faucets	K	P	pk	-				
13.2.3 Water Closets								
13.2.3.1. Floor mount	K	P	pk	-				
13.2.3.2. Wall hung	K	P	pk	-				
13.2.4. Urinals				-				
13.2.4.1. Wall hung	K	P	pk	-				

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1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
13.2.4.2. Pedestal	K	P	pk	-				
13.2.5. Showers								
13.2.5.1. Individual	K	P	pk	-				
13.2.5.2. Gang	K	P	pk	-				
13.2.5.3. Tub/shower	K	P	pk	-				
13.2.6. Industrial sinks								
13.2.6.1. Scullery	K	P	pk	-				
13.2.6.2. Kitchen	K	P	pk	-				
13.2.6.3. Utility	K	P	pk	-				
13.2.7. Traps								
13.2.7.1. Common seal	K	P	pk	-				
13.2.7.2. Deep seal	K	P	pk	-				
13.2.8. Mixing valves								
13.2.8.1. Manual		P	pk	-				
13.2.8.2. Pressure balancing		P	pk	-				
13.2.8.3. Thermostatic		P	pk	-				
13.2.9. Flush-o-meters								
13.2.9.1. Diaphragm		P	pk	-				
13.2.9.2. Piston		P	pk	-				
13.2.10. Drinking fountains								
13.2.10.1 Wall hung	K	P	pk	-				
13.2.10.2. Pedestal	K	P	pk	-				
13.2.10.3. Electrically cooled	K	P	pk	-				
13.2.11. Water Heaters								
13.2.11.1. Electric		P	pk	-				
13.2.11.2. Gas		P	pk	-				
13.2.12. Food grinder		P	pk	-				
13.2.12.1. Industrial	K	P	pk	-				
13.2.12.2. Domestic	K	P	pk	-				
13.2.13. Emergency eyewash/shower	K	P	pk	-				
13.3. Replace								
13.3.1. Faucets	K	P	pk	-				
13.3.2. Lavatories	K	P	pk	-				
13.3.3. Water closets		P	pk	-				
13.3.3.1. Floor mount	K	P	pk	-				
13.3.3.2. Wall hung	K	P	pk	-				
13.3.4. Wall hung Urinals	K	P	pk	-				
13.3.5. Showers								

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1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
13.3.5.1. Individual	K	P	pk	-				
13.3.5.2. Gang	K	P	pk	-				
13.3.5.3. Tub/shower	K	P	pk	-				
13.3.6. Industrial sinks								
13.3.6.1. Scullery	K	P	pk	-				
13.3.6.2. Kitchen	K	P	pk	-				
13.3.6.3. Utility	K	P	pk	-				
13.3.7. Traps								
13.3.7.1. Common seal	K	P	pk	-				
13.3.7.2. Deep seal	K	P	pk	-				
13.3.8. Mixing valves								
13.3.8.1. Manual		P	pk	-				
13.3.8.2. Pressure balancing		P	pk	-				
13.3.8.3. Thermostatic		P	pk	-				
13.3.9. Flushometers								
13.3.9.1. Diaphragm	K	P	pk	-				
13.3.9.2. Piston		P	pk	-				
13.3.10. Drinking fountains								
13.3.10.1. Wall hung	K	P	pk	-				
13.3.10.2. Pedestal	K	P	pk	-				
13.3.10.3. Electrically cooled	K	P	pk	-				
13.3.11. Water Heaters								
13.3.11.1. Electric		P	pk	-				
13.3.11.2. Gas		P	pk	-				
13.3.12. Food grinder								
13.3.12.1. Industrial	K	P	pk	-				
13.3.12.2. Domestic	K	P	pk	-				
13.3.13. Emergency eyewash/shower	K	P	pk	-				
13.4. Repair								
13.4.1. Water closet components								
13.4.1.1. Floor mount	K	P	pk	-				
13.4.1.2. Wall hung	K	P	pk	-				
13.4.2. Common Seal Traps	K	P	pk	-				
13.4.3. Mixing valves								
13.4.3.1. Manual		P	pk	-				
13.4.3.2. Pressure balancing		P	pk	-				
13.4.3.3. Thermostatic		P	pk	-				
13.4.4. Flushometers								

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1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
13.4.4.1. Diaphragm	K	P	pk	-				
13.4.4.2. Piston	K	P	pk	-				
13.4.5. Drinking fountains								
13.4.5.1. Wall hung	K	P	pk	-				
13.4.5.2. Pedestal	K	P	pk	-				
13.4.5.3. Electrically cooled	K	P	pk	-				
13.4.6. Water Heaters								
13.4.6.1. Electric		P	pk	-				
13.4.6.2. Gas		P	pk	-				
13.4.7. Food grinders								
13.4.7.1. Industrial		P	pk	-				
13.4.7.2. Domestic		P	pk	-				
13.4.8. Emergency eyewash/shower		P	pk	-				
13.4.9. Faucets	K	P	pk	-				
14. MANUAL VALVES TR: UFC 3-230-02; UPC; AWWA M44								
14.1. Characteristics								
14.1.1. Check	K	P	pk	-				
14.1.2. Globe	K	P	pk	-				
14.1.3. Gate	K	P	pk	-				
14.1.4. Ball	K	P	pk	-				
14.1.5. Altitude		P	pk	-				
14.1.6. Pressure regulating		P	pk	-				
14.1.7. Pressure relief		P	pk	-				
14.1.8. Quick opening		P	pk	-				
14.1.9. Plug valve - Non-Lubricated	K	P	pk	-				
14.2. Inspect		P	pk	-				
14.2.1. Check	K	P	pk	-				
14.2.2. Globe	K	P	pk	-				
14.2.3. Gate	K	P	pk	-				
14.2.4. Ball	K	P	pk	-				
14.2.5. Altitude		P	pk	-				
14.2.6. Pressure regulating		P	pk	-				
14.2.7. Pressure relief		P	pk	-				
14.2.8. Quick opening		P	pk	-				
14.2.9. Double block and bleed		P	pk	-				
14.3. Replace								
14.3.1. Check	K	P	pk	-				

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
14.3.2. Globe	K	P	pk	-				
14.3.3. Gate	K	P	pk	-				
14.3.4. Ball	K	P	pk	-				
14.3.5. Altitude		P	pk	-				
14.3.6. Pressure regulating	K	P	pk	-				
14.3.7. Pressure relief	K	P	pk	-				
14.3.8. Quick opening	K	P	pk	-				
14.3.9. Plug valve - Non-Lubricated	K	P	pk	-				
14.4. Repair								
14.4.1. Check		P	pk	-				
14.4.2. Globe	K	P	pk	-				
14.4.3. Gate	K	P	pk	-				
14.4.4. Ball	K	P	pk	-				
14.4.5. Altitude		P	pk	-				
14.4.6. Pressure regulating		P	pk	-				
14.4.7. Pressure relief		P	pk	-				
14.4.8. Quick opening		P	pk	-				
14.4.9. Plug valve - Non-Lubricated		P	pk	-				
14.4.10. Double block and bleed		P	pk	-				
14.5. Valve Maintenance								
14.5.1. Lubricate	K	P	pk	-				
14.5.2. Packing	K	P	pk	-				
14.5.3. Exercise	K	P	pk	-				
14.6. Valve boxes								
14.6.1. Characteristics	K	-	-	-				
14.6.2. Install		P	pk	-				
14.6.3. Inspect		P	pk	-				
14.6.4. Maintain		P	pk	-				
15. WATER TESTING TR: UFC 3-230-02; Standard Methods for the Examination of Water and Wastewater; Ken Kerri; ASTMs D1253, D1293								
15.1. Perform water tests								
15.1.1. pH	K	P	pk	-				
15.1.2. Chlorine residual	K	P	pk	-				
15.1.3. Total coliform	K	P	pk	-				
15.2. Collect Samples	K	P	pk	-				
16. FUELS SYSTEMS TR:UFC 3-460-01, UFC 3-460-03; AFI 32-7044								

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1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
16.1. Types	K	-	-	-				
16.2. Standard Designs	K	P	pk	-				
16.3. Modes of Operation	K	P	pk	-				
16.4. Valve Operation	K	P	pk	-				
16.5. Inspect operation of:								
16.5.1. Type I		P	pk	-				
16.5.2. Type II		P	pk	-				
16.5.3. Type III		P	pk	-				
16.5.4. Type IV		P	pk	-				
16.6. Pressure/flow transmitters (PIT/DPT-Type III IV)								
16.6.1. Replace	K	P	pk	-				
16.6.2. Calibrate		P	pk	-				
16.7. Troubleshoot								
16.7.1. Type I		P	pk	-				
16.7.2. Type II		P	pk	-				
16.7.3. Type III		P	pk	-				
16.7.4. Type IV		P	pk	-				
16.8. Automatic valves								
16.8.1. Characteristics	K	-	-	-				
16.8.2. Adjust		P	pk	-				
16.8.3. Repair		P	pk	-				
16.9. Pumps								
16.9.1. Characteristics								
16.9.1.1. Gear		-	-	-				
16.9.1.2. Rotary-vane		-	-	-				
16.9.1.3. Diaphragm	K	-	-	-				
16.9.1.4. Double diaphragm		-	-	-				
16.9.1.5. Centrifugal	K	-	-	-				
16.9.1.6. Deep well		-	-	-				
16.9.1.7. API 610		-	-	-				
16.9.2. Inspect operation of:								
16.9.2.1. Rotary-vane		P	pk	-				
16.9.2.2. Diaphragm	K	P	pk	-				
16.9.2.3. Double diaphragm		P	pk	-				
16.9.2.4. Centrifugal	K	P	pk	-				
16.9.2.5. Deep well		P	pk	-				
16.9.2.6. API 610		P	pk	-				
16.9.3. Rebuild								

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1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
16.9.3.1. Rotary-vane		P	pk	-				
16.9.3.2. Diaphragm	K	P	pk	-				
16.9.3.3. Double diaphragm		P	pk	-				
16.9.3.4. Centrifugal	K	P	pk	-				
16.9.3.5. Deep well		P	pk	-				
16.9.3.6. API 610		P	pk	-				
16.9.4. Replace mechanical seals								
16.9.4.1. Rotary-vane		P	pk	-				
16.9.4.2. Centrifugal	K	P	pk	-				
16.9.4.3. Deep well		P	pk	-				
16.9.4.4. API 610		P	pk	-				
16.9.5. Align								
16.9.5.1. Rotary-vane		P	pk	-				
16.9.5.2. Centrifugal	K	P	pk	-				
16.9.5.3. API 610		P	pk	-				
16.9.6. Lubricate		P	pk	-				
16.9.6.1. Rotary-vane		P	pk	-				
16.9.6.2. Diaphragm	K	P	pk	-				
16.9.6.3. Centrifugal	K	P	pk	-				
16.9.6.4. API 610		K	pk	-				
16.10. Filtration equipment								
16.10.1. Characteristics		K	-	-				
16.10.2. Replace filter element cartridge	K	P	pk	-				
16.10.3. Repair Filtration equipment	K	P	pk	-				
16.10.4. Set Safety Relief Valve		K	pk	-				
16.11. Fuel meters		P	pk	-				
16.11.1. Characteristics		P	pk	-				
16.11.2. Calibrate meters		P	pk	-				
16.11.3. Use master meter		P	pk	-				
16.12. Storage tanks								
16.12.1. Characteristics								
16.12.1.1. Above ground	K	-	-	-				
16.12.1.2. Below ground	K	-	-	-				
16.12.1.3. Cut and cover		K	-	-				
16.12.1.4. Organizational (STI)	K	-	-	-				
16.12.2. Components								
16.12.2.1. Repair		P	pk	-				
16.12.2.2. Inspect		K	pk	-				

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng Strt	Trng Com	Trne Init	Trnr Init
16.12.2.3. Check leak detection systems		K	pk	-				
16.12.3. Inspect dikes	K	P	pk	-				
16.13. Issue/receipt equipment								
16.13.1. Characteristics	K	-	-	-				
16.13.2. Set Thermal Relief Valve		P	pk	-				
16.13.3. Coupler/Single-point nozzle								
16.13.3.1. Characteristics	K	-	-	-				
16.13.3.2. Repair		P	pk	-				
16.13.3.3. Hoses	K	P	pk	-				
16.13.3.4. Perform hydrostatic hose test		P	pk	-				
16.14. Perform pressure test								
16.14.1. Leak test		P	pk	-				
16.14.2. Annual		P	pk	-				
16.14.3. Five year		P	pk	-				
16.15. Gauges		P	pk	-				
16.15.1. Characteristics	K	-	-	-				
16.15.2. Calibrate		P	pk	-				
16.16. Automatic dispensing system								
16.16.1. Troubleshoot		P	pk	-				
16.16.2. Submersible								
16.16.2.1. Characteristics	K	-	-	-				
16.16.2.2. Inspect		P	pk	-				
16.16.2.3. Repair		P	pk	-				
16.16.2.4. Replace		P	pk	-				
16.16.3. Self-Contained								
16.16.3.1. Characteristics	K	-	-	-				
16.16.3.2. Inspect		P	pk	-				
16.16.3.3. Repair		P	pk	-				
16.16.3.4. Replace		P	pk	-				
16.16.4. Calibrate meters		P	pk	-				
16.17. Hydrant outlets								
16.17.1 Characteristics	K	P	pk	-				
16.17.2. Repair		P	pk	-				
16.18. Surge Arrestors		P	pk	-				
17. TANK/CONFINED SPACE ENTRY TR: API Standard 2015 7th Ed (Note 3b); AFI91-203; AFI32-7044								

Attachment 2

1. Tasks, Knowledge and Technical References	2. Duty Position Tasks and Proficiency Codes				3. Certification of Training			
	A/H	J	C/WL	S	Trng	Trng	Trne	Trnr
					Strt	Com	Init	Init
17.1. Characteristics	K	-	-	-				
17.2. Specialized protective equipment								
17.2.1. Inspect		P	pk	-				
17.2.2. Use	K	P	pk	-				
17.2.3. Maintain	K	P	pk	-				
17.2.4. Characteristics		P	pk	-				
17.3. Perform tank inspection		P	pk	-				
17.4. Perform tank cleaning	K	P	pk	-				
17.5. Return tank to service		P	pk	-				
18. DEACTIVATE FUEL SYSTEMS TR: UFC 3-460-01								
18.1. Characteristics	K	-	-	-				
18.1.1. Tanks		P	pk	-				
18.1.2. Piping	K	P	pk	-				
18.1.3. Electrical		P	pk	-				
18.1.4. Mechanical		P	pk	-				
19. CIVILIAN SUPERVISION REQUIREMENTS								
19.1. Civilian Supervisor Course				X				
19.2. WMGT 571 Course				X				
ANY ADDITIONAL REQUIREMENTS CAN BE ADDED								

Attachment 3:

Locally Developed Training Supplement