

**AIR FORCE**  
**QUALIFICATION TRAINING PACKAGE (AFQTP)**



FOR  
**ELECTRICAL POWER PRODUCTION**  
**(3E0X2)**

**MODULE 12**  
**AFSC SPECIFIC PUBLICATIONS**

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**MODULE 12**

**AFSC SPECIFIC PUBLICATIONS**

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Career Field Education and Training Plan (CFETP) references from 1 Aug 02 version.

OPR: HQ AFCESA/CEOF  
(SMSgt Michael A. Trevino)  
Supersedes AFQTP 3E0X2-11, 15 Aug 00

Certified by: HQ AFCESA/CEOF  
(CMSgt Myrl F. Kibbe)  
Pages: 9/Distribution F

**Notice.** This AFQTP is *NOT* intended to replace the applicable technical references nor is it intended to replace hands-on training. It is to be used in conjunction with these for training purposes only.

**AIR FORCE QUALIFICATION TRAINING PACKAGES  
FOR  
ELECTRICAL POWER PRODUCTION  
(3E0X2)**

**INTRODUCTION**

**Before starting this AFQTP**, refer to and read the "[AFQTP Trainer/Trainee Guide](#)."

**AFQTPs are mandatory and must be completed** to fulfill task knowledge requirements on core and diamond tasks for upgrade training. **It is important for the trainer and trainee to understand** that an AFQTP **does not** replace hands-on training, nor will completion of an AFQTP meet the requirement for core task certification. AFQTPs will be used in conjunction with applicable technical references and hands-on training.

**AFQTPs and Certification and Testing (CerTest) must be used as minimum upgrade requirements for Diamond tasks.**

**MANDATORY minimum upgrade requirements:**

**Core task:**

AFQTP completion  
Hands-on certification

**Diamond task:**

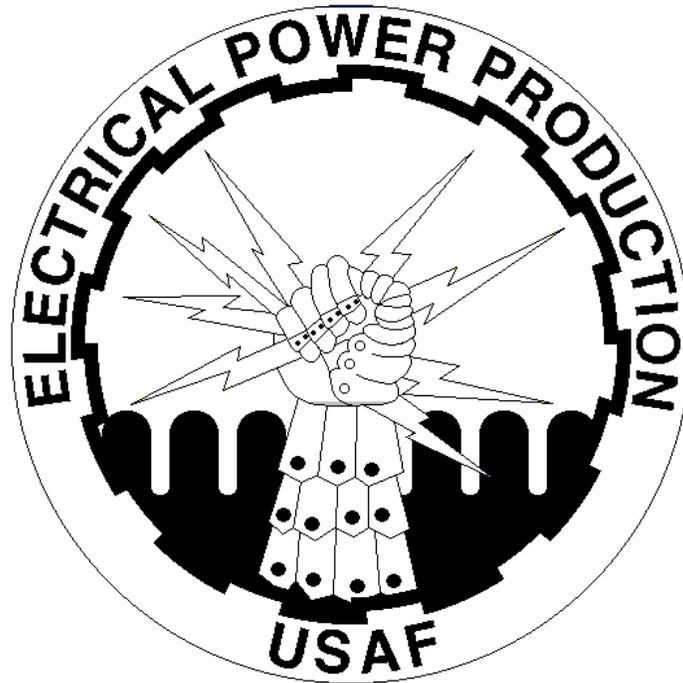
AFQTP completion  
CerTest completion (80% minimum to pass)

**Note:** Trainees will receive hands-on certification training for Diamond Tasks when equipment becomes available either at home station or at a TDY location.

**Put this package to use.** Subject matter experts under the direction and guidance of HQ AFCESA/CEOF revised this AFQTP. If you have any recommendations for improving this document, please contact the Career Field Manager at the address below.

HQ AFCESA/CEOF  
139 Barnes Dr. Suite 1  
Tyndall AFB, FL 32403-5319  
DSN: 523-6392, Comm: (850) 283-6392  
Fax: DSN 523-6488  
E-mail: [ceof.helpdesk@tyndall.af.mil](mailto:ceof.helpdesk@tyndall.af.mil)

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## AFSC SPECIFIC PUBLICATIONS

MODULE 12

AFQTP UNIT 2

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USE TECHNICAL ORDERS (12.2.)

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**USE TECHNICAL ORDERS**  
***Task Training Guide***

<b>STS Reference Number/Title:</b>	12.2., Use technical orders (TOs).
<b>Training References:</b>	<ol style="list-style-type: none"> <li><a href="#"><u>TO 0-1-01, Numerical Index and Requirements Tables, Numerical Index, Alphabetical Indexes, and Cross Reference Table Technical Orders.</u></a></li> <li><a href="#"><u>TO 0-1-02, General Technical Orders.</u></a></li> <li>Career Development Course (CDC) 3E052A Vol. 1, Unit 1-6: <i>Publications.</i></li> <li>CD-ROM Air Force Qualification Training Package (AFQTP) 3E0X2 Electrical Power Production, Version 1.0, Nov 97: <i>AFS Specific Publications.</i></li> </ol>
<b>Prerequisites:</b>	<ol style="list-style-type: none"> <li><b>Possess as a minimum a 3E032 AFSC.</b></li> <li><b>Review the following references:</b> <ol style="list-style-type: none"> <li>TOs 0-1-01 and 0-01-02.</li> <li>CDC 3E052A Vol. 1, Unit 1-6: <i>Publication.</i></li> </ol> </li> <li><b>Complete the CD-ROM AFQTP 3E0X2 Electrical Power Production, Version 1.0, Nov 97: AFS Specific Publications.</b></li> </ol>
<b>Equipment/Tools Required:</b>	<ol style="list-style-type: none"> <li>Computer to support AFQTP CD-ROM.</li> <li>Technical Order Library.</li> </ol>
<b>Learning Objective:</b>	<ol style="list-style-type: none"> <li>Given an operation to perform and access to the appropriate set of TOs, use the TO to perform the operation.</li> <li>Given a maintenance procedure to perform and access to the appropriate set of TOs, use the TO to perform the maintenance.</li> <li>Given a piece of equipment and access to the appropriate set of TOs, use the TO to locate part numbers in the Illustrated Parts Breakdown.</li> </ol>
<b>Samples of Behavior:</b>	Trainee will be able to locate the correct procedures to perform operation, maintenance, and locate part numbers for equipment using technical orders.
<b>Notes:</b>	
Trainer must develop an exercise scenario to validate ability of trainee to meet learning objective and samples of behavior.	

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## USE TECHNICAL ORDERS

**1. Background:** In operations, maintenance and troubleshooting, there must be a starting point. Without a point of origin or step-by-step procedure, one could find himself or herself wandering aimlessly on a piece of valuable equipment. This is why we have technical orders or technical manuals. Technical orders and manuals are the most important types of tools for the craftsman or journeyman. They contain the detailed instructions required for the operation, use, maintenance, inspection, installation, and overhaul of equipment. For some miscellaneous equipment, usually shop or ground equipment, it is not practical or economical for the Air Force to publish a technical order. Instead, commercial technical manuals are used and serve the same purpose as an Air Force technical order. Generally, TOs are published for all military types of equipment, and managed by the Air Force Materiel Command (AFMC).

**2.** Much information used by the Air Force is found in TOs; therefore, you need a procedure that results in locating the right TO number and title so you can use this information. TO numbers and titles are found in the TO indexes. There are two basic types of indexes: **numerical** and **alphabetical**. All TO indexes have a zero (0) as the first number. A numerical index has one (1) as the second number. The third number of the index refers to the equipment category. The alphabetical index lists major components and equipment in alpha order.

**3. Complete the CD-ROM AFQTP 3E0X2 Electrical Power Production, Version 1.0, Nov 97: AFS Specific Publication. Upon completion of the above-mentioned CD-ROM, properly use a technical order to locate information on how to perform operation, maintain equipment and locate parts using the step-by-step procedures listed below.**

**NOTE:**

The review questions for this material are contained in the above-mentioned CD-ROM.

**4. To perform operations, follow these steps:**

**Step 1: Locate the appropriate TO.**

**Step 2: From the Table of Contents, locate the section that describes the given operation.**

**5. To maintain equipment, follow these steps:**

**Step 1: Locate the appropriate TO. Consult the index TO if necessary.**

**Step 2: Find the TO with the procedures for maintenance of that piece of equipment.**

**Step 3: Using the Table of Contents, find the section that describes procedure.**

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**6. To locate parts, follow these steps:**

**Step 1: Locate the TO with the necessary repair part information. Consult the index TO if necessary.**

**Step 2: Locate the TO necessary for identifying the piece of equipment which needs to be replaced.**

**Step 3: Use the Table of Contents to find the section with the desired system.**

**Step 4: Find the piece of equipment and its item number in the group assembly diagram.**

**Step 5: Locate the National Stock Number from the Repair Parts List.**

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**NOTE TO TRAINER:**

In order for the trainee to accomplish these tasks, you must give the trainee the equipment type and what operation and maintenance procedure that you want her/him to perform. Also, you will need to give them the nomenclature of the part that you want them to locate the National Stock Number for.

**USE TECHNICAL ORDERS**

**PERFORMANCE CHECKLIST**

**INSTRUCTIONS:**

The trainee must satisfactorily perform all parts of the task without assistance. Evaluate the trainee's performance using this checklist.

<b>DID THE TRAINEE....?</b>	<b>YES</b>	<b>NO</b>
<b>Perform Operation</b>		
1. Locate the appropriate TO		
2. Locate desired section that describes the given operations		
<b>Maintain Equipment</b>		
1. Locate the appropriate TO		
2. Locate the procedure for maintenance of the given equipment		
<b>Locate Parts</b>		
1. Locate the appropriate TO with the necessary repair part information		
2. Locate the piece of equipment and its item number in the group assembly diagram		
3. Find the National Stock Number from the Repair Part List		

**FEEDBACK:** Trainer should provide both positive and/or negative feedback to the trainee immediately after the task is performed. This will ensure the issue is still fresh in the mind of both the trainee and trainer.

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MEMORANDUM FOR HQ AFCESA/CEOF  
139 Barnes Drive Suite 1  
Tyndall AFB, FL 32403-5319

FROM:

SUBJECT: Qualification Training Package Improvement

1. Identify module.

Module # and title \_\_\_\_\_

2. Identify improvement/correction section(s):

_____ STS Task Reference	_____ Performance Checklist
_____ Training Reference	_____ Feedback
_____ Evaluation Instructions	_____ Format
_____ Performance Resources	_____ Other
_____ Steps in Task Performance	

3. Recommended changes--use a continuation sheet if necessary.

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4. You may choose to call in your recommendations to DSN 523-6392 or FAX DSN/Commercial 523-6488 or (850) 283-6488 or email [ceof.helpdesk@tyndall.af.mil](mailto:ceof.helpdesk@tyndall.af.mil).

5. Thank you for your time and interest.

YOUR NAME, RANK, USAF  
Title/Position