

STUDY GUIDE

MAINTENANCE MACHINIST

TEST #2745

INTRODUCTION

The Maintenance Machinist Test is a job knowledge test designed to cover the major knowledges necessary to perform the job. This *Guide* contains strategies to use for taking tests and a study outline, which includes knowledge categories, major job activities, and study references.

Test Scheduling

Employees who apply for positions, bids, and transfers requiring testing before March 9, 2009, will be scheduled for testing by their Supervisor through Human Resources. For those who apply after March 9, 2009, both the employee and their Supervisor will be notified of a scheduled test date by Human Resources. Test times and dates for positions requiring testing will be specified in the bid/transfer/requisition/job posting. Employees should be prepared to test on the specified dates. Only employees who apply for positions requiring testing, and who meet basic qualifications, will be invited to test. Applicants will be scheduled through the recruiter. If you have any questions, please call 626-302-9830.

Test Session

It is important that you follow the directions of the Test Administrator *exactly*. If you have any questions about the testing session, be sure to ask the Test Administrator before the testing begins. During testing, you may not leave the room, talk, smoke, eat, or drink. Since some tests take several hours, you should consider these factors before the test begins.



All questions on this test are multiple-choice with four possible answers. Prior to March 9, 2009, your answers to the questions are indicated by filling in a circle on an answer sheet with a special mark-sense pencil. For your answers to be read accurately by the scanner, you must fill in the circles completely and erase completely any answer you wish to change. After March 9, 2009 you will take the exam on a computer. For more information on this, please see the next section of this study guide, Computer Based Testing.

The test has a *three hour time limit*, and non-programmable scientific calculators are allowed when taking this test. Calculators will be provided by the Test Administrator, and will be one of the following three models: Casio fx-250HC, Texas Instruments TI-30XA, TI 36-X.

You will receive a Test Comment form so that you can make comments about test questions. Write any comments you have and turn it in with your test when you are done.

TEST TAKING STRATEGIES

The Apprentice Electrician Third Step test contains multiple-choice questions. The purpose of this section is to help you to identify some special features of a multiple-choice test and to suggest techniques for you to use when taking one.

Your emotional and physical state during the test may determine whether you are prepared to do your best. The following list provides common sense techniques you can use before the test begin.

CONFIDENCE

If you feel confident about passing the test, you may lose some of your anxiety. Think of the test as a way of demonstrating how much you know, the skills you can apply, the problems you can solve, and your good judgment capabilities.

PUNCTUALITY

Arrive early enough to feel relaxed and comfortable before the test begins.

CONCENTRATION

Try to block out all distractions and concentrate only on the test. You will not only finish faster but you will reduce your chances of making careless mistakes. If possible, select a seat away from others who might be distracting. If lighting in the room is poor, sit under a light fixture. If the test room becomes noisy or there are other distractions or irregularities, mention them to the Test Administrator immediately.

BUDGET YOUR TIME

Pace yourself carefully to ensure that you will have enough time to complete all items and review your answers.

READ CRITICALLY

Read all directions and questions carefully. Even though the first or second answer choice looks good, be sure to read all the choices before selecting your answer.

MAKE EDUCATED GUESSES

Make an educated guess if you do not know the answer or if you are unsure of it.

CHANGING ANSWERS

If you need to change an answer, be sure to erase your previous answer completely.

RETURN TO DIFFICULT QUESTIONS

If particular questions seem difficult to

to understand, make a note of them, continue with the test and return to them later.

DOUBLE-CHECK MATHEMATICAL CALCULATIONS

Use scratch paper to double check your mathematical calculations.

REVIEW

If time permits, review your answers. Do the questions you skipped previously. Make sure each answer bubble is *completely* filled in. Erase any stray marks on your answer sheet.

Remember the techniques described in this section are only suggestions. You should follow the test taking methods that work best for you

Study Guide Outline

Job Knowledge Categories

Below are the major job knowledges categories that are covered on the test.

Hand, Power and Pneumatic Tools

Relates to the function, nomenclature, and use of those tools necessary to the inspection and repair of steam generation equipment.

Rigging, Dismantling, and Reassembly Procedures

Relates to those procedures required to dismantle and reassemble equipment and to move materials, including the associated rigging and crane procedures.

Steam Generation Equipment

Includes knowledge of the nomenclature and characteristics of the parts used in the repair of generating unit equipment; knowledge of properties, function, and nomenclature of materials comprising generating unit equipment; knowledge of the electrical principles involved in the operation of generating unit equipment and knowledge of all related specification manuals, drawings, and instructions.

Safety, Clearance and Housekeeping Procedures

Relates to the use of proper equipment isolation procedures, proper equipment and repair safety procedures, and proper housekeeping procedures necessary to the maintenance of a safe work environment.

Gauges and Measuring Instruments

Relates to the proper use of precision measuring devices, gauges and other measuring instruments necessary to the inspection and repair of steam generation equipment. Also, include the mathematical knowledge required to read and/or operate these instruments and devices.

Machine Tools and Shop Procedures

Relates to the proper use of machine tools to fabricate and machine parts, to modify and construct tools, and to perform other machining activities necessary to the maintenance and repair of steam generation equipment.

SAMPLE QUESTIONS

1. The most important rule governing the use of all striking tools is to ?
 - a. Mark the work before you strike it
 - b. Wear gloves
 - c. Use a ball peen hammer
 - d. Always wear safety goggles

2. The most common compressor contaminants in the air are dirt and ?
 - a. Carbon monoxide
 - b. Water vapor
 - c. Carbon dioxide
 - d. Sulfur dioxide

3. Shackle size is determined by ?
 - a. Pin diameter
 - b. Throat diameter
 - c. Body diameter
 - d. Hook size

4. The purpose of a turbine governor is to maintain the ?
 - a. Speed limit
 - b. Load limit
 - c. Steam pressure
 - d. Steam flow

5. Equipment lockout/tagout procedures are for the protection of:

- a. Equipment
- b. Personnel
- c. System reliability
- d. Insurance cost

6. The international standard unit of linear measure is?

- a. Pound
- b. Gram
- c. Inch
- d. Meter

7. The use of groups of mill cutters to mill more than one surface at a time is known as “X” milling.

- a. Face
- b. Group
- c. Gang
- d. Form

8. The principle purpose of a “X” is the cutting of round holes into or through materials.

- a. Lathe
- b. Mill
- c. Drill press
- d. Grinder

ANSWERS TO SAMPLE QUESTIONS

1. D
2. B
3. C
4. A
5. B
6. D
7. C
8. C



STUDY GUIDE FEEDBACK

Please use this page to notify us of any changes in policies, procedures, or materials affecting this guide. Once completed, return to:

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Rosemead, CA 91770

TEST NAME: **Maintenance Machinist Test 2745**

COMMENTS SECTION: