

STUDY GUIDE

MAINTENANCE MECHANIC

(HYDRO)

TEST #2457

INTRODUCTION

The 2457 Maintenance Mechanic Hydro Test is a job knowledge test designed to cover the major knowledge areas 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 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 cellular/mobile phones, pagers or other electronic equipment will NOT be allowed in the testing area.

All questions on this test are multiple-choice or hot spot questions. Multiple choice questions have four possible answers. Hot spot questions have a picture, and you must click the correct spot on the picture to answer the question. All knowledge tests will be taken on the computer. For more information on this, please see the next section of this study guide on Computer Based Testing.

The test has a three hour time limit. A scientific calculator will be provided for you to use during the test. The calculator provided during the test session will be one of these models:

Casio fx-250HC, Texas Instruments TI-30XA, Texas Instruments TI-36X

You will NOT be able to bring or use your own calculator during testing.

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.

Study Guide Feedback

At the end of this Guide you have been provided with a Study Guide Feedback page. If a procedure or policy has changed, making any part of this Guide incorrect, your feedback would be appreciated so that corrections can be made.

TEST TAKING STRATEGIES

The **2457 Maintenance Mechanic Hydro Test** contains multiple-choice questions and may also contain hot spot 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 begins.

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 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

JOB KNOWLEDGE CATEGORIES AND STUDY REFERENCES

Below are the major job knowledge areas (topics) covered on the 2457 Maintenance Mechanic Hydro Test and the associated study references. Listed next to each knowledge category is the number of items on the exam that will measure that topic. You can use this information to guide your studying. Some exams also contain additional pretest items. Pretest items will appear just like all of the other items on your exam, but they will not affect your score. They are an essential part of ensuring 2457 Maintenance Mechanic Hydro Test remains relevant to successful performance of the job.

There are a total of 75 items on the 2457 Maintenance Mechanic Hydro Test and the passing score is 71 %.

Tools and Equipment (9 items)

Knowledge of the terminology, care, and use of tools and equipment such as micrometers, lathes, and hand tools.

References for Tools and Equipment:

Machinery's Handbook, Oberg, et. al. Industrial Press Publisher.

Machining Fundamentals, John R. Walker Publisher: Goodheart-Wilcox Co.

Industrial Mechanics, Albert W. Kemp. Publisher: Amer Technical Pub.

Standard Shop Procedures (6 items)

Understanding of procedures such as those for: preparation, welding, blueprint reading, drilling and grinding.

References for Standard Shop Procedures:

Machining Fundamentals, John R. Walker Publisher: Goodheart-Wilcox Co.

TPC Training Systems, Book 304, Bearings. Available for purchase at TPCtraining.com

Math and Measurements (25 items)

Understanding of mathematical concepts including: ratios, fractions, geometry, addition, subtraction, multiplication, fractions, volume, area, inches, feet, degrees, minutes, seconds.

References for Math and Measurements:

Mathematics Made Simple. Thomas Cusick. Publisher: Made Simple

Industrial Mechanics, Albert W. Kemp. Publisher: Amer Technical Pub.

General Mechanical Knowledge (24 items)

General mechanical knowledge including: machine shop terminology, materials, bearings, processes, threading, basic electricity

References for General Mechanical Knowledge:

Industrial Mechanics, Albert W. Kemp. Publisher: Amer Technical Pub.

Machining Fundamentals, John R. Walker Publisher: Goodheart-Wilcox Co.

Machinery's Handbook, Oberg, et. al. Industrial Press Publisher.

Rigging Handbook. Jerry Klinke. Publisher: ACRA Enterprises.

Safety & Rigging (11 items)

Understanding of basic safety and rigging concepts including: determining safe load factor, determining appropriate rigging procedures, knots, personal protective equipment,

References for Safety and Rigging:

IPT's Crane and Rigging Handbook, Ronald G. Garby. Publisher: IPT Publishing and Training.

Rigging Handbook. Jerry Klinke. Publisher: ACRA Enterprises.



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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TEST NAME: **2457 Maintenance Mechanic Hydro Test**

COMMENTS SECTION: