MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING

PROGRAM SCOPE OF TEST CODE #22 MARINE SERVICE

TECHNOLOGY WRITTEN EXAM – 100 QUESTIONS

TIME ALLOWED: 3 HOURS

PERCENT OF TEST:

5% ARC, MIG and TIG Welding

5% Boatbuilding and Repair

18% Fuel Systems in Marine Services

10% Health and Safety

10% Fundamentals of Hand Tools, Power tools, Fasteners and Measuring Procedures

20% Fundamentals of Marine Service Maintenance Areas

22% Fundamentals of Overhaul of Four and Two Stroke Engines

10% Fundamentals of Shop Practices to Industry Standards

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION MARINE SERVICE TECHNOLOGY FRAMEWORK. ALL EXAMS ARE ALIGNED WITH THE MATCHING FRAMEWORK.

SOME QUESTIONS REQUIRE A SYNTHESIS OF KNOWLEDGE BASED ON EXPERIENCE IN THE FIELD AND MAY NOT BE FOUND IN ANY BOOK. HOWEVER, CANDIDATES ARE ENCOURAGED TO STUDY FOR THEIR EXAMS BY REVIEWING CURRENT TEXTBOOKS AND REFERENCE MATERIAL WHICH CAN USUALLY BE FOUND IN THE LIBRARIES OF MOST VOCATIONAL TECHNICAL SCHOOLS AND SCHOOLS WHICH OFFER CHAPTER 74 PROGRAMS. YOU MAY ALSO BE ABLE TO OBTAIN LISTED REFERENCE MATERIALS ONLINE.

You may refer to http://www.doe.mass.edu/cte/frameworks for the Massachusetts Vocational Technical Educator Frameworks.
THE FOLLOWING LIST OF REFERENCE MATERIALS WAS DEVELOPED AS A GUIDE FOR WRITTEN EXAM CANDIDATES:

Audel Welders Guide
John Deere Tool Book
Evinrude Maintenance Manual American
Boat and Yacht Council Manual

The written exam consists of 100 multiple choice questions. Each question consists of one incomplete sentence or a question followed by four choices. Listed below are several sample items:

Marine conductors shall be supported throughout their length or shall be secured at least:

* a. every 18 inches.
   b. at the fuel tank.
   c. every 5 feet.
   d. over the engine.

A fresh supply of the fuel-air mixture is provided in almost all outboard motors by:

   a. compression increasers.
   b. supercharging.
   * c. crankcase scavenging.
   d. air pumps.

* indicates correct answer

THE TEACHER TESTING PROGRAM WILL PROVIDE NON-PROGRAMMABLE CALCULATORS FOR USE IN COMPLETING THE WRITTEN EXAM. DOCUMENTATION REGARDING THESE CALCULATORS WILL BE INCLUDED IN YOUR ADMISSION PACKAGE.

Updated: 7-2016
MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING PROGRAM

SCOPE OF TEST CODE #22 MARINE SERVICE TECHNOLOGY

PERFORMANCE EXAM

TIME ALLOWED: 4 ¼ HOURS

PERCENT OF TEST:

6%  Safety
19% Gas Engine Tune Up
19% Diesel Engine Repair
16% Fuel Filter Change
16% Troubleshoot Marine Starter System
12% Outboard Lower Unit Oil Change
12% Use of Micrometer

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION MARINE SERVICE TECHNOLOGY. ALL EXAMS ARE ALIGNED WITH THE MATCHING FRAMEWORK.

PERFORMANCE EXAM CANDIDATES WILL BE ASSESSED ON THEIR COMPLETION OF THE EXAM TASKS AND THEIR DEMONSTRATION OF INDUSTRY AND OSHA RECOMMENDED SAFETY PROCEDURES.

Most exam tasks require a synthesis of knowledge based on vocational technical work experience. As a result we highly recommend that Performance Exam Candidates possess the required years of related work experience as well as the appropriate industry recognized credentials as outlined as requirements for preliminary vocational technical educator licensure. Candidates are also encouraged to prepare for their exams by reviewing current textbooks and reference material which can usually be found in the libraries of most Vocational Technical Schools and Schools which offer Chapter 74 Programs. You may also be able to obtain listed reference materials online.
CANDIDATE IS RESPONSIBLE FOR:

Work Clothes
Safety Glasses

CANDIDATE WILL BE EVALUATED ON THE FOLLOWING CRITERIA:

1. Ability to follow task procedures to manufacturer's specifications.
2. Correct selection of tools and equipment.
3. Demonstration of work habits to trade standards.
4. Result of completed tasks.
5. Safety.

THE FOLLOWING LIST OF REFERENCE MATERIALS WAS DEVELOPED AS A GUIDE FOR PERFORMANCE EXAM CANDIDATES:

Safety Orientation NCCER, Person Prentice Hall
www.crafttraining.com

1910 Subpart I - Personal Protective Equipment

You may refer to http://www.doe.mass.edu/cte/frameworks for the Massachusetts Vocational Technical Educator Frameworks.

CANDIDATES ARE REMINDED THAT THE USE OF A CALCULATOR IS ALLOWED FOR THE PERFORMANCE EXAM PROVIDING YOU BRING YOUR OWN.