MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING PROGRAM

SCOPE OF TEST CODE # 7 – CARPENTRY

WRITTEN EXAM - 100 QUESTIONS

TIME ALLOWED: 3 HOURS

PERCENT OF TEST:

10% Health & Safety
6% Technical Plans and Prints
1% Specifications
12% Fundamentals of Carpentry
4% Hand Tools
6% Power Tools
9% Ladders and Scaffolds
25% Framing
20% Finish Carpentry
5% Commercial Carpentry
2% Energy Efficient Systems

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION CARPENTRY 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:

U.S. Department of Labor, Occupational Safety and Health Administration
29 CFR Part 1926 Safety and Health Regulations for Construction

Commonwealth of Massachusetts, State Building Code
780 CMR Chapter 36: One and Two Family Dwellings

MODERN CARPENTRY by Willis H. Wagner and Howard Bud Smith
Goodheart-Willcox Co., Inc.

CARPENTRY by Leonard Koel
American Technical Publishers, Inc.

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:

On steep roofs when roof brackets are being used:

a. no guardrails are needed.
b. pump jacks should be in place.
* c. personal fall protective equipment must be worn.
d. wall brackets must be in place.

A roof that would have eight roof surfaces when installed on a 30 ft. x 36 ft. rectangular building is called a:

a. gambrel.
b. hip.
c. gable.
* d. mansard.

* 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: 8-2017
PERCENT OF TEST:

17 %  Wall Framing  
       - Layout walls

22 %  Roof Framing  
       - Layout common rafter

26 %  Stair Construction  
       - Layout rough stairs

26 %  Interior Finish  
       - Install door and window trim  
       - Install Various Moldings  
       - Complete Joinery Project using Hand Tools and Power Miter Box

9 %   Safety  
       - Maintain compliance with OSHA regulations at all times  
       - Operate a portable circular saw according to Industry Standards

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION CARPENTRY FRAMEWORK. 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.
### Recommended Tool/Equipment List

<table>
<thead>
<tr>
<th>Item</th>
<th>Item</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Sawhorses</td>
<td>Coping Saw &amp; Blades Crosscut Saw</td>
<td>Tape Measure 6'</td>
</tr>
<tr>
<td>Portable Circular saw</td>
<td>Hammer</td>
<td>Folding Ruler</td>
</tr>
<tr>
<td>Extension cords</td>
<td>Set of Nail Sets</td>
<td>Pencils</td>
</tr>
<tr>
<td>3/8&quot; Cordless Drill</td>
<td>Block Plane</td>
<td>Utility Knife Back</td>
</tr>
<tr>
<td>Drill Bits and Accessories</td>
<td>Set of Chisels</td>
<td>Saw Wood Files/</td>
</tr>
<tr>
<td>Framing Square</td>
<td>Sharpening Stone</td>
<td>Rasp. Pliers</td>
</tr>
<tr>
<td>Stair Gauges</td>
<td>Set of Screw Drivers</td>
<td></td>
</tr>
<tr>
<td>Combo Square</td>
<td>Awl</td>
<td></td>
</tr>
</tbody>
</table>

### Personal Protective Equipment

- Safety Glasses with Side Shields
- Work Boots
- Appropriate Attire (no loose clothing or jewelry, no shorts)
- Long hair is to be restrained

**POWER MITER BOX WILL BE PROVIDED.**

**NO BOOKS OF ANY KIND WILL BE ALLOWED.**

**YOU MAY BRING ADDITIONAL HAND TOOLS AS DESIRED.**

### The Following List of Reference Materials Was Developed As A Guide For Performance Exam Candidates:

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

www.osha.gov Go to Regulations, select sections:
1910.1200 - Hazard Communication
1910 Subpart I - Personal Protective Equipment 1926
– Safety and Health Regulations for Construction

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

**Candidates Are Reminded That The Use Of A Construction Conversion Calculator Is Not Allowed For The Performance Exam, But You May Bring Your Own Non-Programming Calculator. These Calculators Will Be Inspected Prior To Your Exam. You Can Not Use Any Personal Electronic Devices As A Calculator.**

Updated: 2/2018