MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING

PROGRAM SCOPE OF TEST CODE #23 – MASON AND TILE SETTING

WRITTEN EXAM - 100 QUESTIONS

TIME ALLOWED: 3 HOURS

PERCENT OF TEST:

13% Fundamentals of Health & Safety
10% Fundamentals of Masonry
   - Read and Interpret Prints
   - Set-up and Layout
20% Brick & Block Laying
   - Bonds, Leads and Corners
   - Masonry Walls and Reinforcement
2% Scaffolding
10% Brick Paving
10% Tile Setting Procedures
5% Chimneys, Fireplaces, Arches and Ornamental Masonry
10% Hand and Power Tools
5% Finishing, Restoration, Reinforcement and Waterproofing
10% Masonry Measurements and Mathematics
5% Concrete and Mortar Applications

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION MASON & TILE SETTING 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:

MASONRY SKILLS, FIFTH EDITION by Richard T. Kreh, Sr.
Delmar Publishers, Inc.

CONCRETE TECHNOLOGY by George White
Delmar Publishers, Inc.

CONCRETE FORM CONSTRUCTION by Cairl Moore
Delmar 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:

Flue lining is made of a very strong material called:

a. gypsum  
* b. terra-cotta  
c. concrete  
d. asbestos

The normal steps to align brick in a corner lead with a Mason’s Level are:

a. Plumb, Straight edge, level.  
b. Plumb, Level, Straight Edge.  
* c. Level, Plumb, Straight Edge.  
d. Straight Edge, Plumb, Level.

* 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.
PERCENT OF TEST:

35% BLOCK WORK
- Layout Bond
- Mixing Mortar
- Neatness
- Tool Usage
- Finished Product

12% TILE SETTING
- Layout Bond
- Adhesive Application
- Tile Installation
- Neatness
- Finished Project

35% BRICK WORK
- Layout Bond
- Mixing Mortar
- Neatness
- Tool Usage
- Finished Product

11% TILE GROUTING
- Mixing Grout
- Applying Grout
- Clean Tile Surface
- Neatness
- Finished Product

7% SAFETY AND WORK HABITS

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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.

ALL MATERIALS WILL BE PROVIDED
HAND MIXING TOOLS WILL BE PROVIDED

CANDIDATES MUST BRING THE FOLLOWING:

- Trowel (Brick)
- Brick Hammer
- 2 Ft. Level
- 4 Ft. Level
- Convex Jointer
- Brick Set
- Rubber Float
- Pencil or Marking Device
- Rule – Brick Spacing and Modular
- Mason Line – 12 Ft.
- Line Blocks
- Square – 2 Ft.
- Brush
- Trigs (2)
- Flat Jointer ½” Tool
- Box or Tool Bag Tile
- Sponge
- Chalk Line
- ¼” V Notched Trowel
- Line Pins (2)

SAFETY GLASSES

SAFETY GLASSES MUST BE WORN AT ALL TIMES DURING THE EXAM.
CANDIDATES SHOULD WEAR APPROPRIATE WORK SHOES-NO SNEAKERS.

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

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