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## Written and Performance Exam General Overview

- The intent of this exam is to assess your ability to teach the skills found in the Massachusetts Technical Education Framework.
- This exam is aligned to the frameworks which can be accessed [here](#).
- Many questions and tasks require a synthesis of knowledge based on experience in the field and may not be found in any book.
- Candidates are encouraged to prepare for their exam by reviewing textbooks and reference material which has been listed as part of this exam outline. These resources can be found using online search tools, online vendors, and websites.
- Contact the Technical Teacher Testing Office if you need further assistance in locating resources listed in the exam outline.
- Use this exam outline and the Massachusetts Technical Education Framework to focus your preparation for the exam.

## Written Exam

- Number of Questions: 100
- Administration Time: 3 hours
- Administration Method: Remote Proctoring Online Session

## Written Exam Content Coverage

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**6% Safety and Health Knowledge and Skills**

**7% Wood Technology**

**7% Prints and Layout Projects**

**3% Hand Tools**

**7% Cabinetmaking Joinery Fabrication**

**2% Hand Sanding**

**5% Gluing and Clamping**

**15% Stationary Power Equipment**

**7% Portable Power Tools**

**5% Woodworking Quality Standards**

**7% Casework and Furniture Fabrication**

**5% Hardware/Fasteners**

**7% Architectural Millwork**

**5% Countertops**

**5% Finishing**

**7% Mathematics**

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### Written Exam Reference Materials (Reference Current Edition)

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- **Cabinetmaking and Millwork** by John L. Feirer (Glencoe)
- **Cabinetmaking and Millwork** by Gasper J. Lewis (Delmar)
- **Wood Technology and Processes** by John L. Feirer (McGraw-Hill)
- **Modern Cabinetmaking** by William D. Umstattd, Charles Davis, and Patrick Molzahn (Goodheart-Willcox)
- **Modern Woodworking** by Willis H. Wagner and Clois E. Kicklighter (Goodheart-Willcox)
- **Exploring Woodworking Fundamentals of Technology** by Fred W. Zimmerman and Larry J. McWard (Goodheart-Willcox)

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### Materials Needed for the Written Exam

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- A four-function calculator is included in the online testing system. No other calculators are permitted.
- Scrap paper and pencil/pen are permitted.

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### Written Exam Sample Items

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Each question on the exam consists of one incomplete sentence or question followed by four choices. Some items reference an image or diagram. A few sample items are included below; the correct answer is designated with an asterisk (\*).

Labor costs for a countertop installation of 3.25 HR at twenty-nine dollars per hour would be:

- a. \$87.50
- b. \$89.25
- \*c. \$94.25
- d. \$92.25

What are trammel points used for?

- a. To check angles
- b. Find studs in a wall
- c. Level something
- \*d. Draw circles and arcs when a compass is too small

## Performance Exam

- Administration Time: 5 hours
- Administration Method: Onsite at an approved Teacher Testing Location

### Performance Exam Content Coverage

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- 10%**    *Identification of Wood and Materials*
- 15%**    *Hand Constructed Joinery*
- 8%**      *Rod Layout*
- 30%**    *Project #1: Raised Panel Door*
- 30%**    *Project #2: Drawer with Plastic Laminate Front*
- 7%**      *Safety*

### Materials Required for the Performance Exam (Candidate Must Supply)

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- Face mask (cotton face covering or respirator which fully cover the nose and mouth)
- Eye Protection
- Disposable Gloves
- Leather Work Boots/Shoes
- Industry-Approved Work Clothes (closely fitting); long hair must be restrained
- Back Saw
- Finish Saw
- Dovetail Saw
- Hammer
- Combination Square
- Laminate File
- Set of Chisels (1/4' to 1")
- Black Marker
- Measuring Tool (tape/rule)
- Block Plane
- Compass/Dividers
- Two (2) #2 Pencils
- Non-Programmable Calculator

**Note:** Proper safety practices must be followed at all times. No books or notes will be allowed. Cell phones are prohibited during the exam administration.

### Onsite Performance Exam Requirements

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- Candidate must practice social distancing and wear the appropriate face covering that covers the nose and mouth while at the exam site.
- Testing sites may have individual requirements based on location and the current guidance from the Center for Disease Control and Prevention (CDC).

## Performance Exam Reference Materials (Reference Current Edition)

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- **Cabinetmaking and Millwork** by John L. Feirer (Glencoe)
- **Cabinetmaking and Millwork** by Gasper J. Lewis (Delmar)
- **Wood Technology and Processes** by John L. Feirer (McGraw-Hill)
- **Modern Cabinetmaking** by William D. Umstattd , Charles Davis, and Patrick Molzahn (Goodheart-Willcox)
- **Modern Woodworking** by Willis H. Wagner and Clois E. Kicklighter (Goodheart-Willcox)
- **Exploring Woodworking Fundamentals of Technology** by Fred W. Zimmerman and Larry J. McWard (Goodheart-Willcox)
- **Safety Orientation** by NCCER (Pearson Prentice Hall) [www.crafttraining.com](http://www.crafttraining.com)
- **OSHA Regulations** [www.osha.gov](http://www.osha.gov)
  - [1910.1200 - Hazard Communication](#)
  - [1910 Subpart I - Personal Protective Equipment](#)