
Written and Performance Exam General Overview

- The intent of this exam is to assess the candidate’s ability to teach the skills found in the Massachusetts Technical Education Framework.
- The written exam is a state-developed exam aligned to the frameworks which can be accessed [here](#). The performance exam is a NOCTI-developed teacher test and has been determined by DESE to align to the state frameworks.
- Many questions and tasks require a synthesis of knowledge based on experience in the field and may not be found in any book.
- Use this exam outline and the Massachusetts Technical Education Framework to focus your preparation for the exams.
- Candidates are encouraged to prepare for their written exam by reviewing textbooks and reference material which have been listed as part of this exam outline. These resources can be found using online search tools, online vendors, and websites.

Written Exam

- Number of Questions: 100
- Administration Time: 3 hours
- Passing Score: 70.0%
- Administration Method: Remote Proctored Online Testing Session

Written Exam Content Coverage

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

Written Exam Reference Materials (Reference Current Edition)

- **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)

Materials Needed for the Written Exam

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

Written Exam Sample Items

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 (*)

NOCTI Performance Exam

- Administration Time: 3 hours and 20 minutes
- NOCTI Criterion-Referenced Cut Score/Passing Score: 91.4%
- Administration Method: Onsite at a DESE approved Massachusetts Area Testing Center (MATC) location. Candidates must register and schedule their exam session through NOCTI.

Performance Exam Content Coverage

24% Develop a Cut List

Rail A, B, and C, stiles, drawer face, drawer box sides, drawer box front and back, drawer bottom, and time to complete job.

34% Layout, Cut, and Assemble Face Frame

Planning (use of materials), selection and use of tools/equipment, mitered biscuit joint, pocket screw, mortise and tenon, dowel pin, width of completed project, height of completed project, rail spacing of completed project, diagonal dimensions of completed project, and time to complete job.

42% Layout and Assemble One Drawer

Planning (use of materials, selection and use of tools/equipment, hand operations, cutting and shaping, drawer box width of completed project, height of completed project, depth of completed project, drawer box length of completed project, diagonal dimensions of completed project, laminate of completed project, overall appearance of completed project, and time to complete job.

Performance Exam Requirements

Candidate Supplied

Candidates must bring all appropriate Personal Protective Equipment (PPE), attire/uniform, and any other safety items routinely expected to be used by an employee in the related industry. If the candidate does not bring what is needed to safely complete all jobs on the exam as required in the workplace, the testing session will need to be rescheduled at the candidate's expense.

Site Supplied

Additional equipment and supplies needed to complete the jobs on the performance test will be provided by the testing site.

Performance Exam Site Requirements

Testing sites may have individual requirements based on location and any relevant and current guidance from the Center for Disease Control and Prevention (CDC).