

Massachusetts Technical Teacher Testing Program Construction Craft Laborer Content Outline

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

5%	<i>Construction Craft Safety</i>
10%	<i>Read and Interpret Prints</i>
10%	<i>Hand, Power, and Pneumatic Tools</i>
7%	<i>Line and Grading Equipment</i>
7%	<i>Ladders and Scaffolds</i>
10%	<i>Masonry Concepts</i>
10%	<i>Concrete Placement</i>
6%	<i>Hoisting and Rigging</i>
7%	<i>Trenching and Excavation</i>
10%	<i>Pipe Laying</i>

- 6% **Demolition Site Preparation**
- 7% **Shielded Metal Arc Welding (SMAW)**
- 5% **Construction Craft-Related Mathematics**

Written Exam Reference Materials (Reference Current Edition)

- **New England Laborers Training Academy** (37 East Street, Hopkington, MA 01748; 508-435-6316; Contact: Lani Himienez)
- **Laborers Education and Training Fund** (www.liuanatraining.org)

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 (*).

What does an "as built" plan mean?

- a. The plan has been recorded by the required authorities.
- b. The plan as it progresses
- c. The final drawing
- *d. All of the above

Which of the following is a good way to avoid potential problems that may arise during the excavation activities?

- *a. Maintain field contact with the excavator.
- b. Perform inspections according to your most convenient time and travel schedule requirements.
- c. Ask the excavator to call your company as soon as possible if they cut the warning tape.
- d. Recall what you told the excavator after the excavation activities are completed.

Performance Exam

- Administration Time: 4 hours
- Administration Method: Onsite at an approved Teacher Testing Location

Performance Exam Content Coverage

29% Concrete Placement

- Prepare, Level, and Finish Horizontal Concrete Placement According to OSHA and Industry Standards

29% Erect Scaffold

- Erect One Section of Frame Scaffold According to OSHA and Industry Standards

12% Hoisting and Rigging

- Apply Hoisting and Rigging Skills According to OSHA and Industry Standards

24% Shielded Arc Cutting

- Cut Rebar Using Oxyacetylene Torches According to OSHA and Industry Standards

6% 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) | • Disposable Gloves |
| • Eye Protection | • Industry-Approved Work Clothes and Boots/Shoes |
| | • Calculator |

Note: Additional tools, equipment and supplies will be provided. No books or notes will be allowed. Cell phones are prohibited during the exam administration.

Onsite Performance Exam Requirements

- 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)

- **New England Laborers Training Academy** (37 East Street, Hopkington, MA 01748; 508-435-6316; Contact: Lani Himienez)
- **Laborers Education and Training Fund** (www.liuanatraining.org)
- **Safety Orientation** by NCCER (Pearson Prentice Hall) www.crafttraining.com
- **OSHA Regulations** www.osha.gov
 - [1910.1200 - Hazard Communication](#)
 - [1910 Subpart I - Personal Protective Equipment](#)