

# Massachusetts CTE Teacher Testing Program Construction Craft Laborer Content Outline

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## 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 Proctoring Online Testing Session

## Written Exam Content Coverage

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

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

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

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- **New England Laborers Training Academy** (37 East Street, Hopkinton, MA 01748; 508-435-6316; Contact: Lani Himienez)
- **Laborers Education and Training Fund** (<https://www.liunatraining.org>)

### 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.

### 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 (\*).

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
- NOCTI Criterion-Referenced Cut Score/Passing Score: 70%
- 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

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**29% Concrete Placement**

*The candidate will build a form, place and finish horizontal concrete slab according to specifications, OSHA and industry standards.*

**29% Erect Scaffold**

*The candidate will construct a frame and brace scaffold system with guard rail, stairway and ladder access and egress from the provided materials and according to OSHA and industry standards.*

**12% Hoisting and Rigging**

*The candidate will apply hoisting and rigging skills according to OSHA and industry standards.*

**24% Shielded Arc Cutting and Welding**

*The candidate will safely manually cut rebar using oxyacetylene cutting process according to OSHA and industry standards.*

**6% Safety**

*The candidate will demonstrate safety knowledge and follow all procedures according to OSHA and industry standards.*

### Performance Exam Requirements

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#### Candidate Supplied

Candidates must bring all appropriate Personal Protective Equipment (PPE), attire/uniform, and any other safety items as is 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

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