

Massachusetts CTE Teacher Testing Program Painting and Design Technologies Content Outline

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

15% Fundamentals of Health and Safety

35% Finishes

- Properties of Paints and Coverings
- Surface Preparation
- Finish Applications

10% Drywall Finishing

- Fundamentals and Practices

15% Fundamentals of Interior Design

- Housing
- Architecture
- Furnishings
- Color Theory

7% Decorative Finishes

- Fundamentals and Practices

10% Wallcovering

- Fundamentals and Practices

3% Sign Making and Mural Art

5% Project Management

- Architectural Drawings
- Project Estimating

Written Exam Reference Materials (Reference Current Edition)

- **Painting and Decorating Encyclopedia** by William Brushwell (Goodheart-Willcox)
- **Painting and Decorating Craftsman Manual and Textbook** (Painting and Decorating Contractors of America)
- **Painting and Decorating Contractors of America Estimating Guide** (Painting and Decorating Contractors of America)

Painting and Decorating Contractors of America

3913 Old Lee Highway, Suite 33-B

Fairfax, VA 22030

703-359-0826

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 (*).

Joint tape is usually supplied in ___ inch wide rolls?

- a. 1 $\frac{3}{4}$ "
- b. 2"
- c. 2 $\frac{1}{2}$ "
- d. 3" (*)

The color harmony that is based on a single hue of the color wheel is:

- a. monochromatic. (*)
- b. analogous.
- c. complementary.
- d. triad

NOCTI Performance Exam

- Administration Time: 2 hours
- NOCTI Criterion-Referenced Cut Score/Passing Score: 94.4%
- 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

33% ***Prepare and Paint a Door and Door Frame***

Selection of tools and supplies. Preparation of door and door frame. Caulking the door frame. Painting door and frame. Use of tools and supplies. Appearance of door and frame. Clean-up. Safety practices. Timeliness.

34% ***Paint Interior/Exterior Wall with Door/Window***

Selection of tools and paint. Use of paint brush and paint roller. Use of caulking gun. Correct paint type used. Paint preparation. Appearance of completed wall. Clean-up. Safety practices. Timeliness.

33% ***Patch Dry Wall***

Selection of tools and supplies. Use of tools and supplies. Procedures for patching dry wall. Wall preparation. Application of tape and spackle. Appearance of completed wall. Clean-up. Safety practices. Timeliness.

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.

Notes: All tools and materials necessary to successfully complete this exam will be available at the exam site, however, candidates have the option of bringing/using any of their own personal tools and/or equipment. Workstations will be provided for each assigned task. Some workstations will be shared on a rotational basis. No books or notes will be allowed. Cell phones are prohibited during the exam administration.

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).