MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING

PROGRAM SCOPE OF TEST CODE #17 – GRAPHIC COMMUNICATIONS

WRITTEN EXAM - 100 QUESTIONS

TIME ALLOWED: 3 HOURS

PERCENT OF TEST:

10% Graphic Communications Safety Knowledge and Skills

5% Job Engineering Skills for Graphic Communications
   - Project Management
   - Measuring Systems
   - Estimate Costs

10% Digital File Preparation

25% Graphic Design Practices
   - Typography
   - Elements of Design
   - Manipulate and Scan Images and Materials
   - Page Layout Practices

10% Preparation and Assembly Practices for Output to Various Media
   - File Management
   - Pre-Flight and Output Practices

25% Offset Print Production Practices
   - Feeder and Registration
   - Inking and Dampening
   - Cylinder Systems
   - Delivery Systems
   - Make-ready on an Offset Press
   - Printing Operations on an Offset Press

8% Additional Printing Processes used in Graphic Communications
   - Screen Printing

7% Finishing Practices
   - Binding and Finishing

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION GRAPHIC COMMUNICATIONS FRAMEWORK. ALL EXAMS ARE ALIGNED WITH THE MATCHING FRAMEWORK.

SOME QUESTIONS REQUIRE A SYNTHESIS OF KNOWLEDGE BASED ON EXPERIENCE IN THE FIELD AND MAY NOT BE FOUND IN ANY BOOK. HOWEVER, CANDIDATES ARE ENCOURAGED TO STUDY FOR THEIR EXAMS BY REVIEWING CURRENT TEXTBOOKS AND REFERENCE MATERIAL WHICH CAN USUALLY BE FOUND IN THE LIBRARIES OF MOST VOCATIONAL TECHNICAL SCHOOLS AND SCHOOLS WHICH OFFER CHAPTER 74 PROGRAMS. YOU MAY ALSO BE ABLE TO OBTAIN LISTED REFERENCE MATERIALS ONLINE.

You may refer to http://www.doe.mass.edu/cte/frameworks for the Massachusetts Vocational Technical Educator Frameworks.
THE FOLLOWING LIST OF REFERENCE MATERIALS WAS DEVELOPED AS A GUIDE FOR WRITTEN EXAM CANDIDATES:

*Use Current Editions*

OFFSET LITHOGRAPHIC TECHNOLOGY by Kenneth F. Hird

GRAPHIC COMMUNICATIONS THE PRINTED IMAGE by Z.A. Prust

PRINTING IN A DIGITAL WORLD by D. Bergsland
GATF Publ.

SOLVING SHEET FED OFFSET PRESS PROBLEMS by Dejidas, Eldred, Prince, and Suthons
GATF Publ.

The written exam consists of 100 multiple choice questions. Each question consists of one incomplete sentence or a questions followed by four choices. Listed below are several sample items:

What would you do to remedy piling?

a. Increase the water  
b. Re-adjust pressures  
c. Change the offset blanket  
* d. Wash press and change ink

A ________________ is a Graphic Display that allows quick movement form one application to another without exiting the application.

a. Input device  
* b. Windows-like environment  
c. Storage device  
d. LPI

* indicates correct answer

THE TEACHER TESTING PROGRAM WILL PROVIDE NON-PROGRAMMABLE CALCULATORS FOR USE IN COMPLETING THE WRITTEN EXAM. DOCUMENTATION REGARDING THESE CALCULATORS WILL BE INCLUDED IN YOUR ADMISSION PACKAGE.

UPDATED: 1-2015 lmb
MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING PROGRAM

SCOPE OF TEST #17 - GRAPHIC COMMUNICATIONS

PERFORMANCE EXAM

TIME ALLOWED: 5 HOURS

PERCENT OF TEST:

9% Concept Design and Typography
  • Select and Use Appropriate Software to Design Project

14% Digital Image Capture/Enhancement
  • Scan Photograph for Color Reproduction
  • Use Appropriate Electronic Prepress Tools to Design Color Logo

8% Digital Page Layout
  • Digital Page Layout and Proof Text

22% Digital File Output
  • Prepare Imposition
  • Output Proofs
  • CTP Outputs

12% Paper Cutting
  • Preparation of Paper Stock
  • Paper Cutting

6% Feeder
  • Feeder Setup

3% Machine Folding
  • Folding

5% Delivery
  • Delivery Pile Jogger Operation

3% Printing Make Ready
  • Prepare Press for Printing

9% Printing
  • Printing with Offset Press

3% General Wash Up
  • Press and Plate Wash Up

6% Safety

ORIENTATION OF SHOP AND EQUIPMENT WILL TAKE PLACE PRIOR TO TESTING
THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION GRAPHIC COMMUNICATIONS FRAMEWORK. ALL EXAMS ARE ALIGNED WITH THE MATCHING FRAMEWORK.

PERFORMANCE EXAM CANDIDATES WILL BE ASSESSED ON THEIR COMPLETION OF THE EXAM TASKS AND THEIR DEMONSTRATION OF INDUSTRY AND OSHA RECOMMENDED SAFETY PROCEDURES.

Most exam tasks require a synthesis of knowledge based on vocational technical work experience. As a result we highly recommend that Performance Exam Candidates possess the required years of related work experience as well as the appropriate industry recognized credentials as outlined as requirements for preliminary vocational technical educator licensure. Candidates are also encouraged to prepare for their exams by reviewing current textbooks and reference material which can usually be found in the libraries of most Vocational Technical Schools and Schools which offer Chapter 74 Programs. You may also be able to obtain listed reference materials online.

THE FOLLOWING LIST OF REFERENCE MATERIALS WAS DEVELOPED AS A GUIDE FOR PERFORMANCE EXAM CANDIDATES:

Safety Orientation NCCER, Person Prentice Hall
www.crafttraining.com

1910 Subpart I - Personal Protective Equipment

TOOLS AND SUPPLIES CANDIDATES ARE RESPONSIBLE FOR PROVIDING:

- Personal Color Photograph

MATERIALS SUPPLIED FOR ELECTRONIC PREPRESS:

- Macintosh or HP Compaq Computer
- Color Scanner
- Imagesetter (PS/RIP) – Xamte Plate Maker
- Typeface Chart
- E-Scales
- Line Gauge
- Ricoh PRO C901

SOFTWARE:

- Adobe Design Premium CS5
- In-Design CS5
- Mac OS8
- PhotoShop CS5
- Illustrator CS5
- Windows 7 Operating System
- MS Word 2010
MATERIALS SUPPLIED FOR PRESS:

- Heidelberg Print Master QM-46 Single Color Press

All other necessary tools and materials will be supplied.

You may supply any additional material you feel may assist you in completing the required tasks.

Personal Protective Equipment

- Safety Glasses with Side Shields (Provided)
- Work Boots/Appropriate Work Shoes
- Appropriate Attire (no loose clothing or jewelry, no shorts)
- Long hair is to be restrained

During this exam you will be required to:

- Apply established OSHA safety standards appropriate to the tasks performed.
- Utilize appropriate personal protective equipment.
- Observe personal and clothing practices.
- Demonstrate safe ergonomic procedures.
- Follow practices for the safe operation of machinery.
- Demonstrate safe handling of chemicals and practice safe cleaning procedures.

You may refer to [http://www.doe.mass.edu/cte/frameworks](http://www.doe.mass.edu/cte/frameworks) for the Massachusetts Vocational Technical Educator Frameworks.

Candidates are reminded that the use of a calculator is allowed for the performance exam providing you bring your own.