PERCENT OF TEST:

20% Health and Safety
- Health and Safety Regulations and Practices
- High Pressure Systems
- Electrical Circuits
- Tools
- Refinishing Operations

5% Measuring Procedures & Power Tools
- Measuring Tools and Gauges
- Pneumatic and Electric Powered Tools

8% Structural Damage
- Set-up and Measure Structural Damage

20% Cutting and Welding
- Weldable and Non-Weldable Materials
- Cutting and Welding Processes and Equipment
- Set-up Welding Equipment
- Prep Metal and Work Area
- Test Welds
- Welding Problems

25% Repair Plan
- Wash Vehicle
- Develop Repair Plan
- Exterior Panel Cosmetic Repair

4% Mechanical and Electrical Components
- Suspension and Braking Components
- Electrical Systems Components

6% Plastics and Adhesives
- Types of Plastics used in Vehicles

10% Automotive Refinishing
- Mix and Apply Undercoats
- Dry or Wet Sand and Clean Area
- Blend a Panel
- Panel Refinishing
- Repair Paint Problems

2% Final Detail
THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION AUTOMOTIVE COLLISION REPAIR & REFINISHING 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:

AUTO BODY REPAIR by Robert Scharff Delmar Publishing Inc. for MOTORS

MOTORS ESTIMATING CRASH GUIDES

CHIEF E-Z LINER Curriculum Guide

ESTIMATING FOR COLLISION REPAIR by Michael Crandell Delmar Publisher

YOU MAY WANT TO CHECK WITH YOUR LOCAL LIBRARY FOR OBTAINING THESE RESOURCES THROUGH THE INTERLIBRARY LOAN PROGRAM

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:

When installing a deck/trunk lid technician A aligns the sides first and technician B aligns the front edge first. Which technician is correct?

* a. Technician A
   b. Technician B
   c. Both Technician A and B
   d. Neither Technician A or B

Technician A uses a supplied air respirator when spraying activated products. Technician B used an organic vapor respirator to spray non activated products. Which technician is correct?

* a. Technician A
   b. Technician B
   c. Both Technician A and B
   d. Neither Technician A or B

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: 12/2017
MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING PROGRAM

SCOPE OF TEST CODE # 2 AUTOMOTIVE COLLISION REPAIR AND REFINISHING

PERFORMANCE EXAM

TIME ALLOWED: 4 HOURS

PERCENT OF TEST: HOURS

17% DAMAGE APPRAISAL REPORT
- Analyze damage
- Use crash book or CCC Computerized Program
- Prepare a formal damage report
- Complete list of parts and materials needed
- Compile detailed list of labor operations

28% REPAIRING DAMAGED PANEL
- Preparation of damaged panel
- Perform metal straightening and finishing on damaged panels
- Use body tools and equipment
- Use body filler/polyester putty
- Finish the damaged area to its original contour(s) and primer ready

23% REFINISHING
- Prepare surface
- Prepare panel for undercoat application
- Apply undercoat
- Prepare undercoats for topcoat application
- Apply topcoats

17% STRUCTURAL DAMAGE
- Mark Out Cut Lines
- Tram Gauge – Cross Measure

10% WELDING
- Set up and MIG Weld Steel

5% SAFETY

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION AUTOMOTIVE COLLISION REPAIR & REFINISHING 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.

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

**CANDIDATE IS RESPONSIBLE FOR THE FOLLOWING:**

Safety Glasses  
Appropriate Working Attire  
Appropriate Work Shoes - No Sneakers  
Spray Respirator  
Spray Gun  
Pen and/or pencil  
Calculator

**ADDITIONAL NOTES:**

Due to unforeseen problems extra time, not to exceed ½ hour, will be allotted.  
Candidate may leave if test is completed prior to 4 hours.  
A break will be allowed.  
Safety rules are expected to be industrial and OSHA safety standards.  

**IF SAFETY RULES ARE NOT OBSERVED,**  
**EXAMINER WILL STOP THE TEST AT THAT AREA OF TESTING.**

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

Safety Orientation NCCER, Person Prentice Hall www.crafttraining.com  
www.osha.gov Go to Regulations, select sections:  
1910.1200 - Hazard Communication  
1910 Subpart I - Personal Protective Equipment

**CANDIDATES ARE REMINDED THAT THE USE OF A CALCULATOR IS ALLOWED FOR THE PERFORMANCE EXAM PROVIDING YOU BRING YOUR OWN.**

UPDATED: 12/2018 lmb