THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION AUTOMOTIVE TECHNOLOGY 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 FOR ALL REFERENCE MATERIALS)

DELMAR'S AUTOMOTIVE TECHNOLOGY by Jack Erjavec
Delmar Thomson Learning

DELMAR'S ASE TEST PREP SERIES by Delmar
Delmar Thomson Learning

MODERN AUTOMOTIVE TECHNOLOGY by James E. Duffey
Good Heart Wilcox

AUTOMOTIVE TECHNOLOGY – PRINCIPLES, DIAGNOSIS AND SERVICE by James Halderman
Pearson-Prentice Hall

AUTOMOTIVE SERVICE – INSPECTION, MAINTENANCE, REPAIR by Tim Gilles
Delmar Cengage Learning

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

In a parallel circuit when you add a resistor to an existing circuit, the total circuit resistance:

a. goes up.
* b. goes down.
c. stays the same.
d. none of the above.

When replacing a hydraulic brake line, which of the following is the correct procedure?

a. Use seamless copper tubing with single flared ends.
* b. Use double flared single length steel line.
c. Use single length non-flared steel or copper tubing.
d. Use double flared single length copper tubing.

* 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:
12/2015 LMB
MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING PROGRAM

SCOPE OF TEST CODE # 3 AUTOMOTIVE TECHNOLOGY

PERFORMANCE EXAM

TIME ALLOWED: 4 HOURS

PERCENT OF TEST:

12%   Air Conditioning & Heating
27%   Electrical
8%    Engine Performance
11%   Brakes
13%   Steering and Suspension
13%   Driveline
13%   Engine, Mechanical
3%    Safety

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

CANDIDATE IS RESPONSIBLE FOR:

Work Clothes
Safety Glasses

CANDIDATES WILL BE EVALUATED ON THE FOLLOWING CRITERIA:

1. Ability to follow task procedures to manufacturer’s specifications.
2. Correct selection of tools and equipment.
3. Demonstration of work habits to trade standards.
4. Result of completed tasks.
5. Safety.
ON SITE AVAILABLE EQUIPMENT

Snap-on mt 1560 avr
Snap-on Verus Scan Tool
Genisys Scan Tool
Hunter 4 Wheel Alignment Machine Power
Probe Scan Tool
Robinar A/C Machine 134 Charging Station
Sun VAT45 Series Tester
Fluke77 Series Multimeters
Autel Maxisys Scan Tool
Snap-on DVOM
GM Tech II
Midtronic Battery Testor

RESOURCES AVAILABLE

Mitchell On Demand
Aldata
Identifix

ALL ALIGNMENT TASKS WILL BE PERFORMED ON A FOUR WHEEL ALIGNMENT SYSTEM.

CANDIDATE MUST WEAR APPROPRIATE WORK CLOTHES AND SAFETY GLASSES AT ALL TIMES DURING THE EXAM.

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

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


You may refer to 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.

UPDATED: 3-2016 lmb