The intent of this exam is to assess your ability to teach the skills found in the Massachusetts Vocational Technical Education Diesel 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)

DIESEL TECHNOLOGY, FUNDAMENTALS, SERVICE AND REPAIR by Norman, Corinshock and Scharff
Good Leant-Wilcox Co.

HEAVY DUTY TRUCK SYSTEMS by Norman, Scharff and Corinchock
Delmar

HYDRAULICS, FUNDAMENTALS OF SERVICE
John Deere Publishing

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:

Balancing-Coil and Electronic are two types of:

a. Shutterstats.
* b. Fuel gauges.
c. Fuel injectors.
d. Ignition coils.

An alternator full field test is used to:

a. test the polarity of the alternator diodes.
* b. determine whether the fault is in the alternator or regulator.
c. find an open in the stator.
d. test the alternator capacitor.

* 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.
PERCENT OF TEST:

7 % Power Tools
11 % Steering & Suspension
11 % Electronic Fuel System
21 % Starting Systems
15 % Precise Measuring Equipment
7 % Fuel System (Mechanical) 21
% Hydraulic Brakes
7 % Safety

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION DIESEL 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 bringing, wearing and using:

- Common Hand Tools
- Safety Glasses
- Appropriate Work Clothes

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

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

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.