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## Written and Performance Exam General Overview

- The intent of this exam is to assess your ability to teach the skills found in the Massachusetts Technical Education Framework.
- This exam is aligned to the frameworks which can be accessed [here](#).
- Many questions and tasks require a synthesis of knowledge based on experience in the field and may not be found in any book.
- Candidates are encouraged to prepare for their exam by reviewing textbooks and reference material which has been listed as part of this exam outline. These resources can be found using online search tools, online vendors, and websites.
- Contact the Technical Teacher Testing Office if you need further assistance in locating resources listed in the exam outline.
- Use this exam outline and the Massachusetts Technical Education Framework to focus your preparation for the exam.

## Written Exam

- Number of Questions: 100
- Administration Time: 3 hours
- Administration Method: Remote Proctoring Online Session

## Written Exam Content Coverage

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<b>7%</b>	<b><i>Fundamentals of Health and Safety</i></b>
<b>10%</b>	<b><i>Animal Science Health and Safety</i></b>
<b>13%</b>	<b><i>Fundamentals of Animal Science</i></b>
<b>12%</b>	<b><i>Species of Animals, Breeds, and Characteristics</i></b>
<b>7%</b>	<b><i>Animal Housing</i></b>
<b>20%</b>	<b><i>Comparative Animal Anatomy and Physiology</i></b>
<b>10%</b>	<b><i>Genetics, Breeding, and Reproduction of Domestic Animals</i></b>
<b>10%</b>	<b><i>Animal Health and Disease</i></b>
<b>6%</b>	<b><i>Animal Nutrition, Feeds, and Feeding Practices</i></b>
<b>5%</b>	<b><i>Animal Welfare/Animal Rights</i></b>

### Written Exam Reference Materials (Reference Current Edition)

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- **Animal Science** by James Gillespie (Albany: Delmar)
- **Modern Livestock & Poultry** by James Gillespie (Belmont: Cengage, Delmar Learning)
- **Introduction to Veterinary Science** by MeeCee Baker & James Lawhead (Belmont: Cengage, Delmar Learning)
- **Small Animal Care & Management** by Dean M. Warren (Belmont: Cengage, Delmar Learning)
- **American Association of Laboratory Animal Science Assistant Laboratory Animal Technician Manual** by Timothy P. Lawson
- **An Illustrated Guide to Veterinary Medical Terminology** by Janet Amundson Romich (Delmar)
- **Elsevier's Veterinary Assisting Textbook** by Margi Sirois (Mosby)

### Materials Needed for the Written Exam

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- 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

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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 (\*).

Progesterone is produced in the:

- \*a. corpus luteum.
- b. cervix.
- c. follicle.
- d. uterus.

An animal that has been transformed with foreign DNA is a \_\_\_\_\_ animal.

- a. dominant
- \*b. transgenic
- c. niotech
- d. mutant

## Performance Exam

- Administration Time: 4 hours
- Administration Method: Onsite at an approved Teacher Testing Location

### Performance Exam Content Coverage

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**8% Animal Science Tools and Equipment**

- Identify and Spell Animal Science Tools and Equipment

**8% Characteristics and Breeds/Species**

- Identify and Spell Animal Parasite, Breeds, and Species

**56% Safe Handling and Restraint of Small Animals and Livestock**

- Handling, Restraining and Sexing of a Mouse
- Sheep Restraining, Tipping/Flipping and Hoof Trimming
- Halter, Lead, Crosstie, and Groom Horse
- Catch, Halter and Secure with a Safety Knot a Small Livestock Animal
- Transfer Dog from Kennel and Prepare for Grooming and Nail Trimming

**11% Identify Healthy and Unhealthy Animals**

- Set Up and Operate a Compound Microscope
- Conduct a Fecal Flotation Test

**17% Safety**

- Demonstrate Health and Safety Practices
  - Use of appropriate PPE.
  - Verbalize and follow safety practices during procedures.
  - Use and dispose of chemicals and biohazardous materials according to industry, and OSHA standards.
  - Clean and disinfect work area according to industry and OSHA standards.

### Materials Required for the Performance Exam (Candidate Must Supply)

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**Uniform:** Candidates **will** be required to wear appropriate clothing throughout the exam, including work boots (no sneakers), long pants, and no loose clothing. Long hair must be pulled back. Clothing should be appropriate for outdoor work and weather conditions. The materials listed below should be brought to the test site.

- Face mask (cotton face covering or respirator which fully cover the nose and mouth)
- ANSI approved safety glasses
- Vinyl or latex gloves
- Calculator
- Clipboard
- Pens and pencils

**Note:** Additional lab equipment and supplies will be provided. No books or notes will be allowed. Cell phones are prohibited during the exam administration.

## Onsite Performance Exam Requirements

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- Candidate must practice social distancing and wear the appropriate face covering that covers the nose and mouth while at the exam site.
- Testing sites may have individual requirements based on location and the current guidance from the Center for Disease Control and Prevention (CDC).

## Performance Exam Reference Materials (Reference Current Edition)

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- **Vet Science National FFA** ([www.ffa.org/participate/cdes/veterinary-science/](http://www.ffa.org/participate/cdes/veterinary-science/))
- **Animal Science** by James Gillespie (Albany: Delmar)
- **Modern Livestock & Poultry** by James Gillespie (Belmont: Cengage, Delmar Learning)
- **Introduction to Veterinary Science** by MeeCee Baker & James Lawhead (Belmont: Cengage, Delmar Learning)
- **Small Animal Care & Management** by Dean M. Warren (Belmont: Cengage, Delmar Learning)
- **American Association of Laboratory Animal Science Assistant Laboratory Animal Technician Manual** by Timothy P. Lawson
- **An Illustrated Guide to Veterinary Medical Terminology** by Janet Amundson Romich (Delmar)
- [www.osha.gov](http://www.osha.gov)
- [www.mass.gov](http://www.mass.gov)