State-Approved (Chapter 74)
Program Overview

Drafting

Skilled Drafting professionals create design drawings and prototypes for industries that include architecture, interior design, urban planning and design, and product manufacturing.

What Students Learn & Do

Drafters prepare technical drawings and plans used by production and construction workers. The results of their work can include anything from toys and household items to machinery, buildings and spacecraft. Their drawings provide visual guidelines and technical details required to accurately produce a final product.

Students in Drafting programs learn how to use the technologies and tools required to prepare drawings for fields that include architecture, engineering, scientific fields and manufacturing. Through hands-on projects, students learn to produce drawings and models using mechanical and computer assisted design technology. Over time they develop skills and knowledge of sketching, geometric construction, orthographic projection, 3D solid modeling, shading/rendering, architecture, interior design and the building construction trades.They also learn about workplace safety standards and practice skills related to presentations, demonstrations, and hands-on performance testing.

Students in Drafting programs are required to meet the same high academic standards as their peers in other high school programs. These standards are set by the State of Massachusetts. In addition, mathematics, science, engineering, and communication skills are reinforced through the curriculum.

Licenses & Certifications

Programs will prepare students to earn industry-recognized credentials, and typically students will be able to complete one or more before they graduate from high school. Examples:

- OSHA 10 hour - General
- American Design Drafting Association
- CAD Certifications: Solidworks, Autodesk Inventor, Revit)

Options After High School

State-Approved (Chapter 74) programs provide precise training needed for entry-level employment. Here are some possible career opportunities for Electrical Technology program graduates.

High School Diploma	Technical Training or Associate Degree	Bachelor's Degree (4 Years of College)
• Mechanical Drafter • Engineering Design Drafter • CAD Drafter	• CAD Designer • Engineering Technician	• Mechanical Engineer • Civil Engineer • Architect

Questions to Ask a Program You Are Considering

1. **What workplace experiences do you offer to students - at school, or with an employer?**
2. **What are some common next steps for graduates of this program and how do you support them to get there?**

Learn about the differences between State-Approved (Chapter 74) and Local programs:
http://www.doe.mass.edu/ccte/cvte/cte-families/state-vs-local.html

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