State-Approved (Chapter 74)
Program Overview

# Stationary Engineering

**Stationary engineers are responsible for ensuring the safety and efficiency of large mechanical systems that power and heat manufacturing, government, educational, and hospital facilities.**

## What Students Learn & Do

Stationary Engineering programs provide the foundational training and certifications required to obtain a paid apprenticeship through an Operating Engineers union or to obtain other entry-level work in the field.

Students learn how different types of stationary mechanical equipment operate and work together within a heating or power-generating system. Safety standards are emphasized throughout the program as students assemble and operate these systems. Following Massachusetts regulations students learn to monitor equipment safety - reading and recording data and performing safety tests. Before they complete their training, students have opportunities to work directly with stationary mechanical systems in supervised work settings.

Students in Stationary Engineering are required to meet the same high academic standards as their peers outside of these programs. These standards are set by the State of Massachusetts. In addition, fundamental mathematics are so essential to Stationary Engineering that additional coursework is devoted to mastering the types of calculations required by the profession.

## 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:

- Massachusetts Second Class Fireman's License
- OSHA 10-hour - General

## Options After High School

State-Approved (Chapter 74) programs provide precise training required for entry-level employment in this in-demand career field. Here are some possible Stationary Engineering career opportunities.

### High School Diploma

- Apprentice Boiler Operator
- Apprentice Oil Burner Technician
- Apprentice Boiler Maker
- Power Plant Technician
- Maintenance Worker

### Apprenticeship or Advanced Training

- Boiler Operator
- Oil Burner Technician
- Boiler Maker
- Power Plant Operator

### Associate Degree (2 Years)

- Nuclear Technician
- Electrical Technician
- Mechanical Engineering Technician

### Bachelor's Degree (4 Years of College)

- Mechanical Engineer
- Health and Safety Engineer
- Nuclear Engineer

## 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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