



SHAWSHEEN
VALLEY TECHNICAL HIGH SCHOOL

PROGRAM DESCRIPTION

ELECTRICITY

In a field that will grow alongside the economy and population, Electricians install, test and maintain electrical systems. Electrical is a licensed trade that requires not only highly technical knowledge and skill but also a thorough understanding of the Massachusetts State Electrical Code.

The ELECTRICITY program is designed to integrate shop-based and off-site learning experiences including the school-sponsored house construction project. Students will master wiring methods (commercial and residential), blueprint reading, electrical code, and operating principles of motors, transformers and controlling circuits.



100 COOK ST.
BILLERICA, MA 01821

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PROGRAM HIGHLIGHTS

General and Specific Wiring Methodology
Residential, Commercial and Industrial Wiring
Schematic Diagrams
Power Distribution Systems
Layout and Construction of Multi-Functional Motor Control Circuits
OSHA 10-Hour Safety Credential
Blueprint Reading and Estimating
Massachusetts State Electrical Code
Applied Electrical Mathematics, Science and Theory

Students can obtain up to 1,500 apprenticeship hours and 300 classroom instruction hours toward their Journeyman's electrician license requirements.

Articulation agreements exist with several colleges for students to receive credit for coursework completed while at Shawsheen.

CAREER PATHWAYS

Apprentice Electrician – Union/Open Shop
Licensed Journeyman Electrician
Licensed Master Electrician
Self-Employed Electrical Contractor
Electrical Sales – Materials/Supplies
Alarm/Fiber Optics Installation
Appliance Technician
Lineman



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