BUILDING MAINTENANCE TECHNICIAN, CERTIFICATE OF PROFICIENCY

This program covers the processes and applications required for a person to fulfill the duties of a Building Maintenance Technician. The program includes both general electrical and mechanical training, but also specific facility maintenance training on all the aspects that are involved in keeping a facility fully operational. Included in the course work are theoretical and hands on training related with Commercial Wiring, Industrial Piping and Tubing, Boiler Technologies and HVAC. The skills needed to perform the job on specific applications will be covered.

Program contact: Learn more

This certificate will be automatically awarded when the certificate requirements are completed. If you do not want to receive the certificate, please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

Learn more here and here about how certificate credits apply to the related degree.

Program Admission Requirements

- MATH-0910 Basic Arithmetic and Pre-Algebra with "C" or higher.

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Identify, select, and operate appropriate test equipment and tools, and interpret test results to solve problems in a controlled environment.
2. Use team skills to collaborate and perform in a professional and workman like fashion in a diverse workforce and a dynamic environment to meet organizational goals and objectives.
3. Apply appropriate Math, Science, and computer skills to support installation, troubleshooting, and maintenance of electrical equipment and systems.
4. Utilize effective communication, time management and conflict management skills to propose solutions to technical problems to supervisors and team members.
5. Diagnose and resolve equipment problems by utilizing good technical assessment skills that include planning, reliability, logical thinking, ability to use drawings, schematics and documentation, and a fundamental understanding of electrical maintenance theory and principles.
6. Work with a safety-focuses mindset and follow industry safety standards, local regulations, and company policies and procedures.
7. Apply the fundamentals of electrical skills to install, troubleshoot, and maintain electrical equipment, such as commercial wiring, HVAC, motors, motor controls, and basic PLCs in compliance with National Electric Code.
8. Employ cross functional skills to differentiate between HVAC, boiler, piping and tubing, and electrical power systems, and isolate and resolve breakdown(s).

First Semester		**Credit Hours**
ISET-1300	Mechanical/Electrical Print Reading [1]	2
ISET-1320	Fundamentals of Fluid Power	2
ISET-1410	Applied Electricity I [2]	3
ISET-1420	Applied Electricity II	3
ISET-1450	Heating Ventilation Air Conditioning/ Refrigeration I	2
ISET-1460	Fundamental Boiler Technology	3
ISET-2200	Industrial Motor Controls	3
	Credit Hours	18
Second Semester		
ISET-1340	Industrial Piping and Tubing	2
ISET-2210	Commercial Wiring [3]	3
ISET-2240	Applied National Electric Code	3
ISET-2450	Heating Ventilation Air Conditioning/ Refrigeration II	2
ISET-2460	Applied Boiler Technology	2
ISET-2500	Programmable Logic Controllers Maintenance I [4]	3
ISET-2510	Programmable Logic Controllers Maintenance II	2
	Credit Hours	17
	Total Credit Hours	35

1 ISET-1300 and 1320 are scheduled in consecutive 5 week sessions.

2 ISET-1410, 1420, and 2200 are scheduled in consecutive 5 week sessions.

3 ISET-2240 and 2210 are scheduled in consecutive 5 week sessions.

4 ISET-2500 and 2510 are scheduled in consecutive 5 week sessions.