

# ELECTRICAL SYSTEMS FOR HVAC/R, PROFICIENCY AWARD

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The Electrical Systems for HVAC/R Program is an award to recognize proficiency in electrical systems for HVAC/R, concepts and practices. The program prepares students to become environmental control technology/HVAC/R technicians to maintain and repair heating, cooling, and refrigeration equipment in residential, commercial, and industrial buildings. Technicians can specialize in either installation or maintenance and repair.

Course ID	Title	Units/ Hours
<b>Required Core Courses</b>		
AC R020	Electrical Systems I	3
AC R020L	Electrical Systems I Lab	2
AC R021L	Electrical Systems II Lab	2
<b>Total Units</b>		<b>7</b>

Upon successful completion of this program, students will be able to:

- Identify the electrical components used in air conditioning and refrigeration systems, and state the function of each.
- State how each of the electrical components in a wiring diagram contributes to the sequence of operation.
- Research and apply various electrical codes published in the National Electric Code book (NEC) and mandated by local authorities.