

MECHANICAL SYSTEMS FOR HVAC/R, PROFICIENCY AWARD

The Mechanical Systems for HVAC/R Program is an award to recognize proficiency in HVAC/R mechanical systems 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 |
|------------------------------|--|-----------------|
| Required Core Courses | | |
| AC R010 | Introduction to Air Conditioning and Refrigeration | 3 |
| AC R010L | Introduction to Air Conditioning and Refrigeration I Lab | 2 |
| AC R011L | Air Conditioning and Refrigeration II Lab | 2 |
| Total Units | | 7 |

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

- Recognize each of the components and accessories used in refrigeration systems and define the function of each.
- Estimate the correct operating temperature and pressure of refrigeration or air conditioning equipment given specific variables.
- Research and apply various mechanical codes published in the Uniform Mechanical Code book (UMC) and local authorities. In addition students will be expected to review and understand energy efficiency (Title 24) regulations.