

**ENERGY MANAGEMENT
(C35200AJ)**

Energy Management This program is designed to provide comprehensive training that will qualify students for a number of different occupations including HVAC Technician and Energy Management Technician.

In addition to the specific occupational skills, the program will provide the opportunity for students to receive a **Career Readiness Certificate (CRC)**. The CRC credential certifies that an individual has demonstrated his/her competence in the foundational skills of Reading for Information, Locating Information, and Applied Mathematics, which are fundamental workplace skills.

The **Energy Management** program consists of the following courses:

HVACR Electricity

This course introduces electricity as it applies to Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment.

HVAC Electronics

This course introduces the common electronic control components in Heating, Ventilating, and Air Conditioning (HVAC) systems. Emphasis is placed on identifying electronic components and their functions in HVAC systems and motor-driven control circuits.

Refrigerant Certification

This course covers the requirements for the Environmental Protection Agency (EPA) certification examinations. Topics include small appliances, high pressure systems, and low pressure systems.

Energy Management

This course covers building automation computer programming as currently used in energy management. Topics include night setback, duty cycling, synchronization, schedule optimization, and anticipatory temperature control.

Electrical Devices

This course introduces the electrical and electronic components and test instruments commonly found in commercial refrigeration. Emphasis is placed on troubleshooting electrical and electronic devices, including motors, starting devices, switches, transformers, programmable controls, defrost controls, and wiring systems.

HRD Employability Skills

This course provides employability skills training for unemployed and underemployed adults. Students will utilize their occupational skills training, past work experiences, volunteer work, hobbies, and homemaker skills to develop a master job application and resume. Students will be

involved in interviewing skills, development of a positive self-concept, communication and problem solving skills, and workplace information technology.