

HVAC Service Technicians Training Center

48-03 32nd Place, Long Island City, NY 11101 Tel: (718) 472-0404 (718) 472-0414 Fax: (718) 433-0676

Basic AC/R Electricity & Introduction to Controls: Part 2 (BE/C-2)

This course covers the basic operation of controls for compressors, pumps and fans including: transformers; starters, contractors, relays; sail switches; clocks and thermostats, low and high pressure controls. A discussion of control systems for basic refrigeration is included.

GOAL: To understand how inductive and resistive loads operate, how and why they are wired into the electrical HVAC/R system for best operation and control.

OBJECTIVES: At the completion of the term, the student will be able to understand and discuss some of the properties of the above subjects, complete a pictorial, and schematic diagrams; recognize standard electrical symbols; demonstrate troubleshooting procedures of the above devices using their multimeter in the hands-on shop sessions. They will build Tec-Cube simulator circuits that demonstrate operation of the above devices; troubleshoot and determine simulator faults introduced by the instructor. They will be able to pass a written exam.