

Competencies for the night classes

Air Conditioning I is designed to give the students an understanding of heat transfer through the various components of an R-22 split system. The functions of these components are tested and recorded on work sheets explaining the direct expansion process. Projects such as Soldering and Brazing give the students the skills for installing and repairing the associated system piping. Recovery, Reclaiming, evacuation and recharging brings the students up to speed on industry practices. This is also a prerequisite for Air Conditioning II.

Air Conditioning II continues with more project based skills of replacing compressors, removing, re-piping and replacement of the metering device. The students will measure Superheat and Sub-cooling for proper charging procedures, adjusting the TXV for proper Superheat for system efficiency. This also gives the student an understanding of the new 410 and commercial systems. Prerequisite for Air Conditioning III

Air Conditioning III prepares the students for commercial work by project based assignments on the Carrier rooftop equipment. In this class the students study controls, airflows and troubleshooting air conditioning equipment. This class uses start up procedures and work sheets for diagnosing air conditioning problems determining proper repair procedures.

Electrical I teaches the students basic electrical theory with projects including meter usage, circuit testing, reading and drawing schematics. Other projects include wiring electrical boards simulating heating and cooling equipment. Use of electrical test stations troubleshooting simulated no-heat service calls.