

REFRIGERATION AND AIR CONDITIONING MECHANIC

First-year Apprentice Learning Plan

Please indicate in the appropriate course column the skills to be focused on in this 125-hour course.

Feel free to add skills specific to your work site.

Trade Skills and Tasks	RAP 15 125 hrs	RAP 25A 250 hrs	RAP 25B 375 hrs	RAP 25C 500 hrs	RAP 35A 625 hrs	RAP 35B 750 hrs	RAP 35C 875 hrs	RAP 35D 1000 hrs
	RAP 4156	RAP 5156	RAP 5157	RAP 5158	RAP 6156	RAP 6157	RAP 6158	RAP 6159
Demonstrates basic calculation and measurement specific to trade (metric/imperial)								
On-the-job training and work experience in shopwork setting								
On-the-job training and work experience in residential setting								
On-the-job training and work experience in commercial setting								
On-the-job training and work experience in industrial setting								
On-the-job training and work experience in servicing								
On-the-job training and work experience in air conditioning								
Reads and interprets blueprints, drawings or other specifications								
Measures and lays out reference points for installation								
Assembles and installs refrigeration or air conditioning components such as motors, controls, gauges, valves, pumps, condensers and compressors, using hand power tools								
Measures and cuts piping, and connects piping using welding and brazing								
Installs, repairs and maintains combined heating and cooling units								
Starts up system and tests for leaks using testing devices								
Recharges system with refrigerant and performs routine maintenance or servicing								
Repairs and replaces parts and components, or overhauls entire refrigeration, air conditioning or heat pump systems								
Prepares work estimates for clients								
Uses hand tools such as wrenches, electric drills, pipe cutters and benders, acetylene torches and hammers								
Uses test instruments such as voltmeters, thermometers and manometers								

Note: These skills and tasks are taken directly from the *Apprenticeship and Industry Training Record Book* (Blue Book) as a general guideline of the training required for a first-year RAP student.

Employer's Signature

Student's Signature

Off-campus Coordinator's Signature