

HVAC/R – Heating, Ventilation, Air Conditioning and Refrigeration class.

HVAC/R is a 2 Year program, with hours recognized by the Massachusetts Refrigeration licensing board.

Year 1 is comprised of 2 semesters of refrigeration theory (60 hours per semester, 120 total hours available). Completion of the first year will satisfy the 100 refrigeration theory hours needed to obtain a Massachusetts Refrigeration Technician License or to obtain a Refrigeration Contractor License if already in possession of a Refrigeration Technician License. Additionally, semester 2 will provide an opportunity to obtain a Universal EPA Certification and a R410A Certification (at an additional cost of \$35 per certification).

Topics covered include, but are not limited to...

- Soldering/Brazing
- Pressure testing
- Basic Refrigeration Cycle
- Compressors
- Condensers
- Evaporators
- TXVs
- Refrigerant charging methods
- Refrigerant recovery
- Gauge manifold use
- System evacuation

Year 2 is comprised of 2 semesters of related Massachusetts Electrical Code training (160 total hours). Completion of year two will satisfy the 150 hours of Massachusetts Electrical Code training needed to obtain a Massachusetts Refrigeration Technician License.

Topics covered include, but are not limited to...

- Compressors
- Controls
- Relays
- Motors
- Capacitors
- Multimeter use
- Wiring diagrams