

OTC Construction Trades Department

Program Learning Outcomes

Heating Refrigeration and Air Conditioning – HRA

1. Demonstrate behaviors that contribute to professional success including time management, teamwork, and communication with both industry professionals and customers.
2. Install and maintain heating, ventilation, cooling, and refrigeration equipment in compliance with EPA regulations.
3. Perform heating and cooling load calculations to properly size equipment.
4. Interpret wiring diagrams and schematics.
5. Demonstrate basic ductwork construction and assembly techniques for commercial and residential air distribution systems.
6. Utilize industry tools to troubleshoot, repair, and service heating, ventilation, air conditioning, and refrigeration equipment.
7. Demonstrate safety practices common to the HVAC trade including working with refrigeration and electricity as well as general industry safety.