



## **Refrigeration Training**

**16 hour training**

**Instructor: Sam Brookover**

**Total Cost per person: \$475**

\$420.00 per person (minimum 5 trainees)

Training manual \$10.00 per person

EPA Handling License Certification \$45.00 per person

### **Credentials and Certifications**

Washington County Career Center Certificate of Completion

ESCO Group EPA 608 Universal Handling License Certification

### **Training Outline**

1. Safety
  - a. Personal Safety
  - b. Equipment Safety
  
2. Basic Refrigeration Cycle
  - a. Refrigeration Principles
  - b. Temperature Ranges
  - c. Refrigeration Compression Cycle
  
3. Metering Devices
  - a. Cap Tubes
  - b. Expansion Valves
  
4. Superheat
  - a. Saturation Temperature
  - b. Latent heat
  
5. Additional Components
  - a. Oil Separator

- b. Accumulator
  - c. Expansion tank
  - d. Driers
  - e. Heat Exchanger
6. Line Installation
- a. Insulation
  - b. Cabinet seals
  - c. Proper support
7. Brazing and Nitrogen
- a. Nitrogen Purge
  - b. Cleanliness
8. Leak Detection
- a. Helium Usage
9. Vacuum Pumps
- a. How it Works
  - b. Evacuation Levels
  - c. Boiling Points of Water
10. Basic Electricity
- a. Ohm's Law
  - b. Voltmeter
  - c. Amp Meter
  - d. Ohm Meter
  - e. Megohms
  - f. Circuitry
  - g. Checking a Compressor
11. Troubleshooting
- a. Two Sided Approach
  - b. Mechanical Breakdown
  - c. Compressor Troubleshooting
  - d. Electrical Breakdown
12. EPA 608 Certification
- a. ESCO Group Universal Handling License Certification

Washington County Career Center, Adult Technical Training is Accredited by Accrediting Commission for Career Schools and Colleges (ACCSC). ACCSC holds accreditation with US Dept. of Education. ACCSC sets multiple Standards of Accreditation by which WCCC must comply to ensure quality programs, experienced instructors, optimal graduation rates, and preferred job placement rates.