

# HVAC Technician Course

**Monday, Tuesday, Wednesday  
September 14 - December 23  
5 p.m. — 9 p.m.**

**Tuition — \$2,495  
Includes textbook and materials**

**Peninsula Workforce Development Center  
600 Butler Farm Road, Room 1125  
Hampton, VA**



## EXCELLENCE IN WORKFORCE SOLUTIONS!

Begin your career in a high demand, rewarding profession!

This program is a hands-on, step-by-step approach to building knowledge and skills as an HVAC technician, focusing primarily on the service and repair of air conditioning and heat pumps. Upon completion of the 160 hour course and five years of industry experience, participants will be prepared to sit for the state HVAC licensing exam. EPA Certification is included in training.

The course is divided into four components — Safety, Fundamentals, Operation and Troubleshooting and Professional Skills.

Topics include basic refrigeration cycle and components, basic electricity, electrical measurements, components installation, circuit refrigerant charging, system operation and trouble shooting.

### Hands on exercises include:

- ◆ System & Component familiarization
- ◆ Pressure-temperature relationships
- ◆ Gauge attachment and removal
- ◆ Measuring pressures and temperatures
- ◆ Calculating evaporator superheat, sub-cooling, and discharge superheat
- ◆ Adjusting system charge based on superheat and Sub-cooling
- ◆ Refrigerant recovery
- ◆ Evacuation (pulling a vacuum)
- ◆ Charging a system with refrigerant
- ◆ Schrader core removal
- ◆ Manual pump down
- ◆ Compressor ground check
- ◆ Compressor shorts and opens
- ◆ Capacitor testing
- ◆ Measure ampere draws
- ◆ Troubleshooting electrical components
- ◆ Ignition wiring by following a schematic to troubleshoot problems
- ◆ Flame safeguard devices: safety interlocks, diagnosing system failures

**To register, call 757.865.3122**

**WORKFORCE DEVELOPMENT**

**Thomas Nelson  
COMMUNITY COLLEGE**

**For information on course content,  
please call Larry White at 757.719.0525**