

Facility Maintenance Technology Technical Standards

for Wake Technical Community College Programs
at Vernon Malone College and Career Academy

Facility Maintenance Technology is a multi-trades program that combines the fundamentals of HVAC, electrical and plumbing to provide students with a core set of skills needed in a high-occupancy residential or commercial facility.

A student wishing to enroll in the Facility Maintenance Technology curriculum must meet the following standards related to the trades in which they work:

- Have sufficient visual capacity to read prints, schematics and other documents, as well as meters and testers
- Not have a debilitating fear of heights, crawl spaces or confined spaces
- Be capable of hearing equipment running and/or operating to determine if working correctly
- Be able to communicate with co-workers at a moderate distance without line of sight
- Be able to identify wire, components and supplies by color code
- Be able to climb ladders up to 35 feet in length
- Be able to lift objects weighing up to 50 pounds and install equipment overhead
- Be capable of working with many types of tools and be able to wear a tool pouch for up to 10 hours per day
- Must not have a fear or anxiety of getting clothes or hands dirty
- Must be able to locate and interpret N.C. General Statutes, city codes, department rules and regulations
- Be able to wear hard hats, safety glasses, steel-toe shoes and other safety-related equipment as required by the industry

For Air Conditioning, Heating & Refrigeration, students must also meet the following:

- Be able to tolerate exposure to noxious chemical compounds, including but not limited to acids, acid-like chemicals, solvents, glues, cleaners, oils and refrigerants
- Be able to work with hands (mechanical coordination skills)
- Must not have a debilitating fear of insects, spiders, snakes, lizards or vermin
- Sufficient physical endurance to work in extreme thermal environments
- Sufficient motor function to execute movements required to install and service HVACR systems, including heat pumps and furnaces

For Electrical Systems, students must also meet the following:

- Be able to clearly distinguish primary colors
- Have good peripheral vision and depth perception
- Be capable of hearing tones of various pitches emitted by testers and meters