

TECHNICAL STANDARDS FOR AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY

A student wishing to enroll in the AHR Technology curriculum (s) must meet the following standards:

They must:

- ☐ Have sufficient visual capacity to read prints, schematics, other documents as well as meters and testers
- ☐ Be able to clearly distinguish all the primary colors
- ☐ Have good peripheral vision and depth perception
- ☐ Be capable of hearing tones of various pitches emitted by testers and meters
- ☐ Be capable of hearing equipment running/operating to determine if working correctly
- ☐ Be able to communicate with co-workers at a moderate distance with-out line of sight
- ☐ Be able to climb ladders up to 35' in length while carrying tools and equipment
- ☐ Be able to lift objects weighing up to 60 lbs. and install equipment overhead
- ☐ Not have a de-habilitating fear of heights, crawl spaces or confined spaces
- ☐ Be capable of working with many types of tools and be able to wear a tool pouch for up to 10 hours per day
- ☐ Be able to wear hard hats, safety glasses, steel toe shoes and other safety related equipment as required by the Industry
- ☐ 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, or lizards
- ☐ Sufficient physical endurance to work in extreme thermal environments
- ☐ Sufficient motor function to execute movements required to install and service HVACR systems.

The AHR trade is one with many inherent risks and safety of the employee (student) is of the utmost concern and cannot and should not be compromised just because an individual *wants* to go into the trade.

TECHNICAL STANDARDS FOR BIOPHARMACEUTICAL TECHNOLOGY

A student wishing to enroll in the Biopharmaceutical Technology curriculum must meet the following standards:

They must:

- ☐ Demonstrate problem solving skills involving basic math, the use of a calculator, and the ability to interpret word problems.
- ☐ Communicate clearly (orally and in writing) in order to relay information to the appropriate individuals.
- ☐ Read and correctly carry out written instructions in class and in lab exercises.
- ☐ Understand and correctly carry out oral instructions.
- ☐ Work independently or in teams.
- ☐ Pay attention to detail.
- ☐ Conduct themselves in a professional manner.
- ☐ Deal with other students and instructors with patience and tolerance.
- ☐ Follow directions precisely.
- ☐ Think before speaking.

The Biopharmaceutical industry has very strict procedures and codes on conduct.

Acceptance of this structure and control is paramount for success in this program and this field of employment.

TECHNICAL STANDARDS FOR COLLISION REPAIR AND REFINISHING TECHNOLOGY

A student wishing to enroll in the Collision Repair and Refinishing Technology curriculum must meet the following standards:

He/She must:

- ☐ Be able to reach, manipulate, and operate equipment necessary for laboratory work.
- ☐ Not have a debilitating fear of small spaces, confined space, or heights.
- ☐ Be able to make accurate measurements with test equipment and/or measuring instruments.
- ☐ Be able to troubleshoot projects, components, and equipment to include detecting and evaluating slight differences in color, distance, smell, vibration, sound, and movement.
- ☐ Be able to repair and/or replace defective components.
- ☐ Be able to communicate with others in English to accurately gather information relevant to defects in equipment, components, and/or products' locations.
- ☐ Be able to interpret and work from blueprints, schematics, or sketches.
- ☐ Be able to identify wire, components, and supplies by color code.
- ☐ Be able to lift/carry 40-60 pound objects and be able to lift objects up and over an automobile fender or radiator.
- ☐ Be able to understand orders, instructions, and descriptions; and be able to read and comprehend technical manuals, manufacturer's instructions, material safety data sheets, and warning labels in English.
- ☐ Be able to operate vehicles safely.
- ☐ Not be allergic to petroleum products or any other chemical used in the program.
- ☐ Not have a fear of fire or sparks.
- ☐ Be able to work with hands.
- ☐ Not have a fear of getting clothes or hands dirty.
- ☐ Be able to connect, distinguish, and evaluate readings using a Volt-Ohm meter.
- ☐ Be able to locate/interpret NC General Statutes, city codes, department rules, and regulations.
- ☐ Have a driver's license that is valid in NC.

TECHNICAL STANDARDS FOR ELECTRICAL SYSTEMS TECHNOLOGY

A student wishing to enroll in the Electrical Systems Technology curriculum (s) must meet the following standards:

They must:

- ☐ Have sufficient visual capacity to read prints, schematics, other documents as well as meters and testers
- ☐ Be able to clearly distinguish all the primary colors
- ☐ Have good peripheral vision and depth perception
- ☐ Be capable of hearing tones of various pitches emitted by testers and meters
- ☐ Be capable of hearing equipment running/operating to determine if working correctly
- ☐ Be able to communicate with co-workers at a moderate distance with-out line of sight
- ☐ Be able to climb ladders up to 35' in length while carrying tools and equipment
- ☐ Be able to lift objects weighing up to 50 lbs. and install equipment overhead
- ☐ Not have a debilitating fear of heights, crawl spaces or confined spaces
- ☐ Be capable of working with many type of tools and be able to wear a tool pouch for up to 10 hours per day
- ☐ Be able to wear hard hats, safety glasses, steel toe shoes and other safety related equipment as required by the Industry

The electrical trade is one with many inherent risks and safety of the employee (student) is of the utmost concern and cannot and should not be compromised just because an individual *wants* to go into the trade.

TECHNICAL STANDARDS FOR GEOSPATIAL INFORMATION SYSTEMS (GIS)

Students wishing to pursue a certificate in GIS should be able to meet the following criteria:

- Have a high level of comfort and proficiency in computer technology including database management and programming.
- Have an interest in technology and problem solving.
- Be capable of reading maps/construction plans, documents, and digital displays.
- Be capable of and using optical equipment which requires manual focusing.
- Have the dexterity to operate equipment with sensitive adjustment levers and knobs.
- Be able to interpret and work from blueprints, schematics, or sketches.
- Make accurate measurements with equipment and/or measuring instruments.
- Be able to understand orders, instructions, descriptions/able to read and comprehend technical manuals, manufacturer's instructions, and warning labels in English.

Employers hiring for GIS career paths seek individuals with the following skills and knowledge:

- Strong GIS skills with two or more GIS packages
- Strong Macro / C / C++ / Visual Basic programming skills
- Understanding of and/or willing to learn math and statistical analysis
- Strong Oracle or related RDBMS skills including development skills
- Excellent verbal / written communication skills
- Genuinely excited and enthusiastic about learning and pushing technical limits / finding new solutions
- Good writing skills - for documentation, training, processes
- Formal training or high level of experience with GIS.
- "Hands-on" experience
- Good analytical / problem solving skills
- A basic understanding of the concepts behind data management in a relational database
- Good IT technical skills
- The ability to think and solve problems

TECHNICAL STANDARDS FOR PLUMBING TECHNOLOGY

A student wishing to enroll in the Plumbing Technology curriculum (s) must meet the following standards:

They must:

- Reach, manipulate, and operate equipment necessary for laboratory work.
- Must not have a debilitating fear of small spaces or heights.
- Make accurate measurements with test equipment and/or measuring instruments.
- Troubleshoot projects, components, and equipment to include detecting and evaluating slight differences in color, distance, smell, vibration, sound, and movement.
- Repair and/or replace defective components.
- Communicate with others in English to accurately gather information relevant to:
 - a. Defects in equipment, components and/or products.

- Be able to interpret and work from blueprints, schematics, or sketches.
- Be able to identify wire, components, and supplies by color code.
- Be able to lift/carry 40-60 pound objects...
 - a. To carry to the top of a ladder and test, install, and/or repair items located at the ceiling of a room or on top of a building.

- Must be able to understand orders, instructions, descriptions/able to read and comprehend technical manuals, manufacturer's instructions, and warning labels in English.
- A student must not be allergic to petroleum products or any other chemical used in the program.
- Be able to hand dig a ditch up to 2' in depth, and maintain a given slope.
- Must not have a fear of fire or sparks.
- Must be able to work with hands.
- Must not have a fear of getting clothes or hands dirty.
- Must be able to locate/interpret NC 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.

The plumbing trade is one with many inherent risks and safety of the employee (student) is of the utmost concern and cannot and should not be compromised just because an individual *wants* to go into the trade.

TECHNICAL STANDARDS FOR SIMULATION & GAME DEVELOPMENT

Students wishing to enroll in the Simulation and Game Development curriculum must meet the following standards:

- Be able to be in a seated position for long periods of time.
- Be able to learn and use specialized software without disability accommodations.
- Be able to distinguish colors.
- Have vision that is correctable in order to see and read a computer monitor and other types of documents without disability accommodations.
- Have good peripheral vision and depth perception.
- Be capable of hearing various tones and pitches without accommodations.
- Be able to use a computer keyboard and mouse without disability accommodations.
- Have sufficient capacity to read prints, schematics, documents, charts, and information on computer monitors.
- Be able to work with hands (hand/eye coordination skills).

Due to the diversity of jobs in this area there may be additional requirements mandated by an individual company in the capability of the graduate, but these will not necessarily be consistent with the profession as a whole.

TECHNICAL STANDARDS FOR NURSING ASSISTANT

1. **Critical Thinking:** Nursing Assistant I students should possess critical thinking ability sufficient for clinical judgment. For example: The student must also be able to control emotional responses to events that occur in clinical situations.
2. **Interpersonal Skills:** Nursing Assistant I students shall possess interpersonal abilities sufficient to interact with individuals, families, groups, etc. from a variety of social, emotional, cultural, and intellectual backgrounds.
3. **Communication Skills:** Nursing Assistant I students shall possess communication abilities sufficient for interaction with others in verbal and written form.
4. **Mobility:** Nursing Assistant I students shall possess physical abilities to move from room to room and maneuver in small spaces, squat, stand and walk for extensive periods of time.
5. **Motor Skills:** Nursing Assistant I students shall possess gross and fine motor abilities sufficient to provide safe and effective nursing care.
6. **Hearing:** Nursing Assistant I students shall possess auditory ability sufficient to monitor and observe for health needs. For example: Hear monitor alarms, emergency signals, blood pressure sounds, cries for help, abnormal sounds.
7. **Visual:** Nursing Assistant I students shall possess visual ability sufficient for observation and color distinction. (Wake Tech has adopted vision requirements of 20/30 or better in both eyes)
8. **Weight-Bearing:** Nursing Assistant I students shall possess ability to lift and manipulate/move 45-50 pounds. For example: Moves and positions residents/patients.
9. **Occupational Exposures:** Nursing Assistant I students may be exposed to communicable disease and /or body fluids, toxic substances, medicinal preparations and shall use appropriate precautions at all times. For example: Student may be assigned an isolation resident/patient and must be able to don the appropriate personal protective equipment for direct patient care

EXAMPLES ARE NOT ALL INCLUSIVE

*Standards developed by the Board of Directors of the Southern Council of Education for Nursing to assist Nursing Education Programs in compliance with Americans with Disabilities Act.

TECHNICAL STANDARDS FOR COSMETOLOGY

A student wishing to enroll in the Cosmetology & Esthetics Technology curriculum must meet the following standards:

Communication:

- Be able to communicate effectively and professionally when interacting with peers, faculty, staff, and guests using the English language verbally and in written form.
- Be able to follow verbal and written instructions

Physical Strength and Stamina:

- Be able to lift and move stock and supplies up to 30 pounds.
- Stand and move about for up to eight hours.
- Complete cleaning responsibilities requiring stooping, bending, and climbing.
- Use a hand-held fire extinguisher.

Mobility and Motor Skills:

- Must be able to work with hands.
- Move freely, quickly, and safely in a close environment.
- Work in coordination with other students.
- Safely manipulate small equipment, and equipment controls.
- Safely pour and measure liquids including chemicals.
- Safely handle chemicals
- Perform repetitive tasks required in a cosmetology salon.

Sensory:

- Hear voice instructions in a noisy environment.
- Hear equipment alarms.
- Read printed and written instructions and labels.
- Feel hair, skin, nail texture.
- Must not be allergic to petroleum products.
- Must not be allergic to Sodium Hydroxide, Ammonium Thioglycolate, Hydrogen Peroxide, and other miscellaneous cosmetology/esthetics products.
- Must not have a fear of getting clothes or hands dirty.
- Specific vision abilities required by a job in the Cosmetology/Esthetics Technology include close vision, color vision, ability to adjust focus.

Interpersonal and Emotional:

- Work cooperatively with other students and instructors.
- Complete an equitable share of salon duties.
- Follow directions of instructors and fellow students.
- Remain calm in a stressful environment.
- Display characteristics of emotional stability.
- Self-manage medical and emotional conditions.

TECHNICAL STANDARDS FOR WELDING TECHNOLOGY

A student wishing to enroll in the Welding Technology curriculum (s) must meet the following standards:

They must:

- ☐ Reach, manipulate and operate equipment necessary for laboratory work.
- ☐ Must not have a de-habilitating fear of small spaces or heights.
- ☐ Make accurate measurements with test equipment and/or measuring instruments.
- ☐ Repair and/or replace defective components.
- ☐ Communicate with others to accurately gather information relevant to:
 - A. Defects in equipment, components and/or products.
 - B. Locations
- ☐ Be able to interpret and work from blueprints and understand welding symbols correctly.
- ☐ Be able to climb ladders up to 35' in length while carrying tools and equipment
- ☐ Be able to lift objects weighing up to 50 lbs. and install equipment overhead
- ☐ Must be able to understand orders, instructions, descriptions; able to read and comprehend technical manuals.
- ☐ Be able to wear hard hats, safety glasses, steel toe shoes and other safety related equipment as required by the Industry
- ☐ Must not have a fear of fire or welding sparks.
- ☐ Must be able to work with hands.
- ☐ Must not have a fear of getting clothes or hands dirty.
- ☐ Must be able to locate, interpret and apply the rules of the American Welding Society and the American Society of Mechanical Engineering welding codes.
- ☐ Must be able to identify welding electrodes, filler wire, and supplies by welding code.

The welding trade is one with many inherent risks and safety of the employee (student) is of the utmost concern and cannot and should not be compromised just because an individual *wants* to go into the trade.