

**UNC CHARLOTTE
ENVIRONMENTAL HEALTH AND SAFETY
PERSONAL PROTECTIVE EQUIPMENT (PPE) HAZARD ASSESSMENT SUMMARY**

Work Environment	Minimum PPE
Art Studios	<ul style="list-style-type: none"> ● Safety glasses w/side shields ● Gloves (liquid, cut, or thermal resistant) ● Shoes (closed toe slip resistant)
Building Environmental Services	<ul style="list-style-type: none"> ● Safety glasses w/side shields ● Gloves (liquid, cut, or thermal resistant) ● Shoes (closed toe slip resistant)
Construction & Renovation	<ul style="list-style-type: none"> ● Hard hat ● Safety glasses w/side shields ● Vest (high visibility) ● Gloves (liquid, cut, or thermal resistant) ● Safety shoes (protective toe slip resistant)
Food Service	<ul style="list-style-type: none"> ● Gloves (liquid, cut, or thermal resistant) ● Shoes (closed toe slip resistant)
Healthcare	<ul style="list-style-type: none"> ● Safety glasses w/side shields ● Gloves (liquid, cut, or thermal resistant) ● Lab coat, gown or apron ● Shoes (closed toe slip resistant)
Laboratory	<ul style="list-style-type: none"> ● Safety glasses w/side shields ● Gloves (liquid, cut, or thermal resistant) ● Lab coat, gown or apron ● Shoes (closed toe slip resistant)
Machine Shop, Stockroom & Warehouse	<ul style="list-style-type: none"> ● Safety glasses w/side shields ● Gloves (liquid, cut, or thermal resistant) ● Shoes (closed toe slip resistant)
Mail Services	<ul style="list-style-type: none"> ● Gloves (liquid, cut, or thermal resistant) ● Shoes (closed toe slip resistant)
Maintenance	<ul style="list-style-type: none"> ● Hard hat ● Safety glasses w/side shields ● Vest (high visibility) ● Gloves (liquid, cut, or thermal resistant) ● Safety shoes (protective toe slip resistant)
Office	<ul style="list-style-type: none"> ● Gloves (liquid, cut, or thermal resistant)
Parks, Recreations, & Grounds	<ul style="list-style-type: none"> ● Hard hat ● Safety glasses w/side shields ● Ear plugs or muffs ● Vest (high visibility) ● Gloves (liquid, cut, or thermal resistant) ● Safety shoes (protective toe slip resistant)
Police & Security	<ul style="list-style-type: none"> ● Safety glasses w/side shields ● Vest (high visibility) ● Gloves (liquid, cut, or thermal resistant) ● Shoes (closed toe slip resistant)
Telecom	<ul style="list-style-type: none"> ● Safety glasses w/side shields ● Vest (high visibility) ● Gloves (liquid, cut, or thermal resistant) ● Shoes (closed toe slip resistant)
Transportation	<ul style="list-style-type: none"> ● Gloves (liquid, cut, or thermal resistant) ● Shoes (closed toe slip resistant)

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Head Protection - Appropriate head protection is required when employees are in areas where there is a potential for injury to the head from falling or moving objects or when they are exposed to electrical conductors which could be contacted by the head. All head protection for the protection of employees against impact or penetration of falling and flying objects shall meet the following ANSI Z89.1 standards.

Eye and Face Protection - Appropriate eye and/or face protection is required when employees are in areas where there is exposure to eye and face hazards from flying particles, molten metal, liquid chemicals, acids, caustic liquids, chemical gases or vapors or potentially injurious light radiation. Suitable face protection in addition to eye protection shall be worn by CHIPPERS and GRINDERS OPERATORS exposed to the hazard of flying particles. Welders shall wear approved eye protection. All eye protection must meet the design requirements specified by American National Standards Institute (ANSI Z87.1). Appropriate non-conductive face shields and safety glasses with side shields shall be worn whenever there is a danger of injury from exposure to electric arc or flashes or flying objects resulting from electrical explosions. Safety Goggles offer more protection than safety glasses especially when working with or near liquids. Required prescription safety glasses with side shields are 100% state funded; however, employees are responsible for eye examination. [Correction Enterprises](#) is a contracted provider of prescription safety eyewear through the North Carolina Division of Purchase and Contract. All other eye and face protection can be purchased using the 49er Mart system.

Respiratory Protection – Appropriate respiratory protection is required when employees are in areas where effective engineering controls are not feasible to protect the health of the employee from harmful dusts, fogs, fumes, mists, gases, smokes, sprays, or vapors. The employee must meet the requirements of the **UNIVERSITY'S RESPIRATOR PROTECTION PROGRAM** before using a respirator on campus. All required respirators must be NIOSH approved.

Hearing Protection - Appropriate hearing protection (ear plugs and muffs) is required when employees are in areas where there is exposure to excessive noise levels. Protection is not required unless the employee's time weighted average exposure exceeds 85 decibels (db) for an 8 hour exposure. However, it is recommended that appropriate ear plugs and muffs are provided to employees for use in all high noise areas (mechanical rooms, boiler rooms, etc.) as a precautionary measure.

Hand Protection - Appropriate hand protection is required when employees are in areas where their hands are exposed to skin absorption of harmful substances, severe cuts or lacerations, severe abrasions, punctures, chemical burns, thermal burns or harmful temperature extremes. Appropriate gloves are dependent upon the type of chemical contaminant or physical hazard. The chemical safety data sheet (SDS) must be consulted when selecting gloves for chemical exposure. When selecting gloves for physical hazards ensure the manufacturer indicates the glove will resist cuts, abrasions, punctures, and burns. Gloves used for electrical protection must be marked as to the class of equipment and shall be worn when there is a possible exposure to electrical hazards.

Body/Torso – Appropriate body protection (welding coats, aprons, etc.) shall be worn when welding, grinding, or performing other types of work where sparks or hot metal are present. If operating a chainsaw or other heavy duty saw Kevlar or similar cut resistant legging shall be worn. The appropriate protective clothing for possible exposure to an electric arc shall be selected based on the hazard/risk category number (i.e. Category 0-4). The appropriate body protection for falls (safety harness) are available to prevent falls from six feet or more. Appropriate liquid/chemical resistant suits (lab coats, aprons, gowns) shall be worn when working with chemicals or other liquid hazards.

Foot Protection - Appropriate foot protection is required when employees are in areas where there is danger of foot injuries due to falling and rolling objects, slip hazards or objects piercing the sole, and where employees are exposed to electrical hazards. All safety foot protection shall comply with ANSI Z-41. Required safety foot protection is [state reimbursable](#).

Note - The Environmental Health and Safety office should be consulted prior to purchasing PPE. The UNC Charlotte 49er Mart system is the main system for purchasing PPE.