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| Subject: Personal Protective Equipment | Date: 5/03/23 |
| EH&S Program: Occupational Safety | Next Review: 05/03/26 |
| Scope: University Wide | Original: 1990 |

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Policy:

Department heads and Supervisors are responsible to ensure that all employees working at Stony Brook University are provided with the appropriate personal protective equipment and training to complete their jobs safely. This policy presents the principles for proper selection of personal protective equipment and to establish procedures for its use.

Definitions:

American National Safety Institute (ANSI): The American National Standards Institute (ANSI) is a private, non-profit organization that administers and coordinates the U.S. voluntary standards and conformity assessment system.

American Society for Testing and Materials (ASTM): is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services.

National Institute of Occupational Health and Safety NIOSH: responsible for conducting research and making recommendations for the prevention of work-related injury and illness. NIOSH is part of the Centers for Disease Control and Prevention (CDC) within the U.S. Department of Health and Human Services.

Personal Protective Equipment (PPE): Equipment worn to minimize exposure to hazards that may cause serious workplace injuries and illnesses. These injuries and illnesses may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards. Personal protective equipment may include items such as gloves, safety glasses and shoes, earplugs or muffs, hard hats, respirators, or coveralls, vests and full body suits.

Procedures:

A. Responsibilities

1. Departments must:
 - a. Assist the Department of Environmental Health and Safety in assessing the workplace to determine if hazards are present or likely to be present in order to identify areas and work activities where personal protective equipment (PPE) is to be used. See Appendices A and B for guidelines.
 - b. Provide employees with the appropriate type and size of personal protective equipment.
 - 1) Employees with allergies to latex or other PPE material must be accommodated with alternate materials. PPE is provided without cost to the employee.
 - c. Control the issuance and storage area of protective equipment to ensure that it is sanitary, in reliable condition, and used properly.
 - d. Ensure the use of protective equipment when required.
 - e. Provide for medical evaluation as applicable. Medical evaluations are to be provided at no cost to the employee.
 - f. Each departments is responsible to determine the appropriate purchasing activities of protective equipment for their employees.
2. Department of Environmental Health and Safety will:
 - a. Assess, as necessary, each department's workplace to determine if hazards are present or likely to be present in order to identify areas and work activities where personal protective equipment is to be used.
 - b. Provide training on the selection, proper use and maintenance of personal protective equipment.
3. Employees will:
 1. Use and maintain protective equipment as required.
 2. Be trained as deemed necessary.
 3. Be capable of demonstrating the ability to use PPE properly.

B. Training

1. Employees required to wear PPE must participate in training in the proper selection, use, care and limitations of PPE before performing any activities requiring its use. An individual's specific training requirements are based on their activities, work environment, potential exposures to hazardous materials, conditions or processes. This training is provided via several methods, including instructor-led sessions, computer-based training courses, written programs or by local supervisors and teachers.
2. Miscellaneous Protection

- a. Other work locations and activities where hazards or potential hazards exist may require additional personal protective equipment and specific training. Examples of additional protective equipment may include surgical masks, welding aprons, metatarsal guards, safety belts, lanyards, cryogenic gloves, and electrical insulating cloths or mats. Specific review is required to identify when additional protective equipment is needed.

Forms:

- **Appendix A - PPE Selection Chart**
- **Appendix B - Personal Protective Equipment Hazard Assessment**

Policy Cross Reference:

- **1-9 Hearing Conservation Program**

Relevant Standards/Codes/Rules/Regulations/Statutes:

- **1910.132, Personal Protective Equipment**
- **1910.135, Occupational Head Protection**
- **1910.137, Electrical Protective Devices**
- **1910.140, Personal Fall Protection Systems**
- **1910.145, Specifications for accident prevention signs and tags**
- **1910.1030, Bloodborne Pathogens**
- **1910.1200, Hazard Communication**
- **1910, Subpart D, Walking Working Surfaces**
- **1926, Subpart M, Fall Protection**
- **ASTM F2413-05 Standard Specification for Performance Requirements for Foot Protection**

References and Resources:

- **NA**

APPENDIX A: Personal Protective Equipment Selection Chart

The following table is presented to serve as a guideline for the proper selection of various types of personal protective equipment. The Department of Environmental Health and Safety should be consulted for specific recommendations and requirements, including chemical permeation and degradation information.

| Affected Body Area | Hazards | Type(s) of Protection |
|---------------------------|--|---|
| Eye/Face | General Plant Wear | Safety Glasses with Side Shields |
| | Low Velocity Flying Chips | Safety Glasses with Side Shields |
| | High Velocity Flying Chips | Impact Goggles or Safety Glasses with Full Faceshield |
| | Corrosive Liquid | Chemical Goggles and Full Faceshield |
| | Welding, Cutting or Hot Work | Welding Helmet with Tinted Lense and Safety Glasses with Side Shields |
| Head | -General Plant Wear Elevated Work, including Cherry Pickers, Telescoping Booms, or Aerial Work Platforms -Rigging -Material Handling -Maintenance -Construction Operations -Demolition Operations -Confined Space | Hard Hat – ANSI approved |
| Ears | High Noise Levels >85db | Ear Plugs or Muffs |
| Respiratory System | Respirable Dust | Dust/Mist or HEPA Respirator |
| | Low Concentration of Solvent Vapors | Respirator with Organic Vapor Cartridge |
| | Acid mist | Respirator with Acid Mist Cartridge |
| | High Concentration of dust or vapors | Supplied Air Respirator |
| | Oxygen Deficiencies or Toxic Gas | Self-Contained Breathing Apparatus |
| Hand / Arms | Handling Rough or Sharp Objects | Leather Gloves |
| | Handling Hot Objects | Leather, Aluminized Fabric, high Intensity Heat Resistant Gloves |

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|--------------|---|---|
| | Using Organic Solvents | Various Glove Materials: Nitrile, Rubber, PVC, etc. |
| | Potential Exposure to Blood or Body Fluids | Nitrile Gloves |
| | Electric Current | Rubber Dielectric Gloves |
| | Petroleum | Nitrile Gloves |
| Feet / Legs | General Plant Wear or Light Material Handling | Safety Toe Shoes |
| | Chainsaws or Abrasive Blasting | Leggings or Chaps |
| | Working with Steam or Corrosive Liquids | Safety Toe Boots |
| | Chemicals | Various Overboots Depending on Chemical |
| Trunk / Body | Exposure to Vehicular Traffic | Red or Orange reflective Warning Garments |
| | Welding, Cutting, or Brazing | Cape or Snood |
| | Punctures, Impact or Cuts | Canvas or Leather Apron |
| | Chemicals | Lab Coat |
| | Maintenance | Coveralls |

Appendix B: Personal Protective Equipment Hazard Assessment

| Section 1. Initial Contact Information | | | | | |
|--|------------|-------------------|--------------|----------------|------------|
| Department | | Building | | Room No. | |
| Evaluator | | | Date | | |
| Contact Person | | | Phone No. | | |
| Type of Work Performed | | | | | |
| Section 2. Personal Protective Equipment | | | | | |
| Gloves | R / U / NA | Eye/Face | R / U / NA | Hearing | R / U / NA |
| Acid | | Safety Glasses | | Earplugs | |
| Base | | Chemical Goggles | | Muffs | |
| Solvents | | Face Shield | | Combination | |
| Oil | | Impact Goggles | | | |
| Infectious | | Heat | | | |
| Radiation | | Light | | | |
| Cold Surface | | Welding Helmet | | | |
| Hot Surface | | | | | |
| High Voltage | | | | | |
| Cuts | | | | | |
| Body | R / U / NA | Head | R / U / NA | Foot | R / U / NA |
| Lab Coat | | Impact | | Chemical | |
| Aprons | | Cold Weather | | Impact | |
| Coveralls | | Electrical (low) | | Puncture | |
| Full Body Suit | | Electrical (high) | | Non-conductive | |
| Cold Weather | | | | Conductive | |
| Heat Suit | | | | Cold Weather | |
| Safety Belt or Harness | | | | | |
| Respirator | Hazard | Manufacturer | NIOSH TC NO. | R / U / NA | |
| 1/2 Face | | | | | |
| Full Face | | | | | |
| PAPR | | | | | |
| Disposable | | | | | |
| Self Contained | | | | | |
| Airline | | | | | |

Note: R=Required U=Utilized NA = Not Applicable