

SURVEY OF HAZARD ASSESSMENT FOR PERSONAL PROTECTIVE EQUIPMENT

Mechanical Maintenance

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. All eye protection must be ANSI approved.

ACTIVITY	HAZARD	TYPE OF PPE	AFFECTED DEPARTMENTS/JOB TITLES
IMPACT chipping, grinding, masonry work, drilling, chiseling, scraping, visiting construction sites, etc.	Flying fragments, objects, large chips, particles, sand, dirt, etc.	Spectacles with side protection, goggles, or face shield. Face shields should be used for severe exposure and can only be worn over primary eye protection (glasses or goggles). Persons whose vision requires the use of prescription lenses must wear either protective devices fitted with prescription lenses or protective devices designed to be worn over regular prescription eye wear.	Garage – Transportation Maintenance. Mechanical Maintenance – Director Mechanical Maintenance, Energy Management, HVAC Refrigeration Technician, HVAC Preventative Maintenance Technician, Boiler/Pool Operator, Student Laborer. Plumbing Shop – Plumber. Electrical Shop – Electrician.
CHEMICALS Chemical handling/testing, cleaning sanitary sewers, checking batteries, etc.	Splash, irritating mists, etc.	Goggles. For severe exposure use face shield. Face shields can only be worn over primary eye protection (glasses or goggles).	Garage – Transportation Maintenance. Mechanical Maintenance – Director Mechanical Maintenance, Energy Management, HVAC Refrigeration Technician, HVAC Preventative Maintenance Technician, Boiler/Pool Operator, Student Laborer. Plumbing Shop – Plumber. Electrical Shop – Electrician.
LIGHT/RADIATION Electric arc welding, gas welding, cutting, torch soldering, etc.	Optical radiation	Welding helmets, welding shields or welding goggles with appropriate shades.	Mechanical Maintenance – Director Mechanical Maintenance, Energy Management, HVAC Refrigeration Technician, HVAC Preventative Maintenance Technician, Boiler/Pool Operator. Plumbing Shop – Plumber. Garage – Transportation Maintenance.

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. All required respirators must be NIOSH/MSHA approved.

ACTIVITY	HAZARD	TYPE OF PPE	AFFECTED DEPARTMENTS/JOB TITLES
(Required) Asbestos O&M Activities, Asbestos Brake Work,	Asbestos, lead paint, welding fumes, organic	Negative pressure half and full face air-purifying respirators with HEPA,	Plumbing Shop – Plumber. Mechanical Maintenance – Director Mechanical Maintenance, Energy Management, HVAC Refrigeration Technician, HVAC Preventative

Welding/Cutting in Confined Spaces, Spray Painting, Aerosol Adhesive Application, Removal of Lead Paint.	vapors, paint spray, pesticides, or assorted chemicals	Organic Vapor or other appropriate filter/cartridge; Positive pressure powered full face and hood/helmet air purifying respirators with HEPA or other appropriate filter/cartridge.	Maintenance Technician, Boiler/Pool Operator. Garage – Transportation Maintenance.
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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 must be ANSI approved.

ACTIVITY	HAZARD	TYPE OF PPE	AFFECTED DEPARTMENTS/JOB TITLES
Visiting construction areas, steam tunnel entry, routine activities where an overhead hazard exists or there is a possibility of falling objects, etc.	construction hazards, bump hazards, falling objects	ANSI approved hard hats, hard caps or bump caps	Garage – Transportation Maintenance. Mechanical Maintenance – Director Mechanical Maintenance, Energy Management, HVAC Refrigeration Technician, HVAC Preventative Maintenance Technician, Boiler/Pool Operator, Student Laborer. Plumbing Shop – Plumber. Electrical Shop – Electrician.

Foot Protection - appropriate foot protection is recommended 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 foot protection must be ANSI approved.

ACTIVITY	HAZARD	TYPE OF PPE	AFFECTED DEPARTMENTS/JOB TITLES
Visiting construction areas, Lifting and transporting parts, equipment, etc., cleaning sanitary sewers and work in other wet areas, etc.	Falling and/or rolling objects, sharp objects, slip hazards	ANSI approved safety shoes; waterproof boots recommended.	Garage – Transportation Maintenance. Mechanical Maintenance – Director Mechanical Maintenance, Energy Management, HVAC Refrigeration Technician, HVAC Preventative Maintenance Technician, Boiler/Pool Operator, Student Laborer. Plumbing Shop – Plumber. Electrical Shop – Electrician.

ELECTRICAL PROTECTIVE DEVICES - appropriate electrical protective devices in the form of insulating blankets, matting, covers, line hose, gloves, and sleeves made of rubber are required when employees are in areas where there may be exposure to substantial electrical voltage.

ACTIVITY	HAZARD	TYPE OF PPE	AFFECTED DEPARTMENTS/JOB TITLES
High voltage work on switches, transformers, switch gear, electrical manholes and other equipment	Electrical shock	Nonconductive safety shoes, rubber insulating line hose, insulating covers (rubbers), insulating blankets, insulating gloves and lockout/tagout	Electrical Shop - Electrician. Mechanical Maintenance – Director Mechanical Maintenance

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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. Special care must be taken when selecting gloves for chemical exposure to assure glove is resistant to the chemical in question.

ACTIVITY	HAZARD	TYPE OF PPE	AFFECTED DEPARTMENTS/JOB TITLES
Handling chemicals, welding, cutting, metal working, material handling, etc.	chemicals, sharp edges, abrasive surfaces, heat and steam	chemical resistant gloves including but not limited to vinyl, latex, rubber, nitrile, neoprene (special care must be taken when selecting gloves for chemical usage to assure they are resistant and won't allow breakthrough to the skin), leather or other cut resistant work gloves, heat resistant gloves	Garage – Transportation Maintenance. Mechanical Maintenance – Director Mechanical Maintenance, Energy Management, HVAC Refrigeration Technician, HVAC Preventative Maintenance Technician, Boiler/Pool Operator, Student Laborer. Plumbing Shop – Plumber. Electrical Shop – Electrician.

HEARING PROTECTION - appropriate hearing protection 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 hearing attenuators are provided to employees for use in all high noise areas (mechanical rooms, boiler rooms, etc.) as a precautionary measure. Any location where staff members must raise their voices to be heard is most likely a situation where hearing protection is indicated.

ACTIVITY	HAZARD	TYPE OF PPE	AFFECTED DEPARTMENTS/JOB TITLES
Routine maintenance activities in high noise areas, pool maintenance, other high noise equipment operation	Noise	ANSI approved ear plugs or ear muffs with appropriate noise reduction rating (NRR)	Mechanical Maintenance – Director Mechanical Maintenance, Energy Management, HVAC Refrigeration Technician, HVAC Preventative Maintenance Technician, Boiler/Pool Operator, Student Laborer. Garage – Transportation Maintenance.

Certification of Safety-Related Personal Protective Equipment Hazard Assessment

Department	Name of Person Assessing	Signature	Date
Mechanical	Marc Huizinga		