

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Custodial Worker _____
 Department: Physical Plant _____
 Location / Worksite: _____
 Employee Name(s): _____

Date: 10/16/00 _____
 Supervisor: _____
 Analysis: Dave Erickson _____
 Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Mixing of bulk chemicals from transfer towers	Splash of concentrated chemicals	Goggles, faceshields, rubber gloves, apron.	Y
Pigeon Waste	Histoplasmosis	1/2 respirator (HEPA cartridges), rubber gloves.	Y

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Maintenance Worker, Mechanic _____

Date: 10/16/00 _____

Department: Physical Plant, Service Garage _____

Supervisor: _____

Location / Worksite: _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Automobile/Heavy Equipment Mechanic Work	Flying particles, petroleum solvents and wastes	Safety glasses, chemical resistant gloves	Y
Locksmith Work	Flying particles	Safety glasses, face shield when using high speed tools	Y
Wood Working Work (Shop)	Noise, flying particles, lifting/carrying, rough surfaced materials	Hearing protection, safety glasses, face shield for high speed tools, puncture/cut resistant gloves, safety shoes, guards in place	Y
Metal Working Work (Shop)	Noise, flying particles, lifting/carrying, rough surfaced materials, metal working chemicals	Hearing protection, safety glasses, face shield for high speed tools, puncture/cut resistant gloves, safety shoes	Y
Painting (Shop)	Vapors, mists, solvents and chemical, flammables	Organic vapor respirator w/paint pre-filter, chemical resistant gloves	Y
Upholstery Work (Shop)	Solvents, glues, punctures	Chemical resistant gloves	Y

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Maintenance Worker _____

Date: 10/16/00 _____

Department: Power Plant, Housing _____

Supervisor: _____

Location / Worksite: _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Power Plant Work	Hot surfaces, contact with surfaces (head), noise	Heat resistant gloves, hard hats, hearing protection	Y
Power Plant Laboratory Work	Corrosive chemicals, splashing chemicals	Safety glasses, chemical resistant gloves, apron. When pouring large quantities of chemicals, a face shield and goggles	Y
Tunnel Work	Contact (head), restricted access areas, heat stress, hot surfaces	Hard hat, light clothing, temperature resistant gloves, safety glasses	Y
Elevator Maintenance Work	Uncovered electrical switches and circuits, falling, moving machinery	Electrically insulated gloves (rated for energized voltage), fall protection, cut/puncture resistant gloves	Y
Confined Space Work	Hazardous atmosphere, restricted exit, other depending on nature of the space	Determine appropriate personal protective equipment in accordance with the Confined Space Entry Program	Y

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Job Title: Maintenance Worker _____

Date: 10/16/00 _____

Department: Physical Plant, Housing, Power Plant _____

Supervisor: _____

Location / Worksite: _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Arc Welding or Cutting	Electric shock, metal sparks, molten and hot metal, UV, IR and visible light, falling, dropping, rolling and sharp objects	Insulating mats or blankets, insulated/heat and puncture/cut resistant gloves, safety shoes, hard hat, safety glasses, welding shield or helmet with appropriate eye shade.	Y
Oxy-fuel Welding or Cutting	Metal sparks, molten and hot metal, UV, IR and visible light, falling, dropping, rolling and sharp objects	Heat and puncture/cut resistant gloves, safety shoes, hard hat, safety glasses, welding shield or helmet with appropriate eye shade.	Y
Torch Brazing	Metal sparks, molten and hot metal, UV, IR and visible light, falling, dropping, rolling and sharp objects	Heat and puncture/cut resistant gloves, safety shoes, hard hat, filter lens spectacles or goggles, or safety glasses and hand shield, with appropriate eye shade (at least #3).	Y
Torch Soldering	Molten and hot metal, UV, IR and visible light, falling, dropping, rolling and sharp objects	Heat and puncture/cut resistant gloves, flame resistant clothing, safety shoes, hard hat, filter lens spectacles or goggles, or safety glasses and hand shield, with appropriate eye shade (at least #2).	Y
Metal Grinding or Chipping	Metal sparks and chips, falling, dropping, rolling and sharp objects	Heat and puncture/cut resistant gloves, typical work clothing, safety shoes, safety glasses, full face shield.	Y

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Department: Physical Plant, Power Plant, Housing _____

Supervisor: _____

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Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Carpentry Work (Construction Site)	Flying particles, falling, falling objects, cuts/punctures, lifting/carrying	Safety glasses, safety shoes, hard hat, cut/puncture resistant gloves, fall protection when working at elevations. When using high speed power tools, a face shield.	Y
Masonry Work (Construction Site)	Flying particles, falling, falling objects, cuts/puncture, lifting/carrying	Safety glasses, safety shoes, hard hat, cut/puncture resistant gloves, fall protection when working at elevations. When using high speed power tools, a face shield.	Y
Laborer Work (Construction Site)	Flying particles, falling, falling objects, cuts/puncture, lifting/carrying	Safety glasses, safety shoes, hard hat, cut/puncture resistant gloves, fall protection when working at elevations. When using high speed power tools, a face shield.	Y
Painting Work (Construction Site)	Flying particles, falling, falling objects, cuts/puncture, lifting/carrying, cleaning solvents	Safety glasses, safety shoes, hard hat, cut/puncture resistant gloves, fall protection when working at elevations. When using high speed power tools, a face shield.	Y
Roofing Work	Falling, hot surfaces, heat and cold stress, sealing chemicals, solvents, lifting/carrying	Safety glasses, safety shoes, fall protection, heat resistant gloves, chemical resistant gloves. Temperature stress protective clothing, depending on weather conditions.	Y
Sheet Metal Work (Construction Site)	Flying particles, lifting/carrying, rough surfaced materials	Safety glasses, safety shoes, puncture/cut resistant gloves. When using high speed power tools, a face shield.	Y
Low Voltage Electrified Equipment Work	Electric shock, falling	Electrically insulated gloves (rated for voltage of energized equipment), insulated blankets or mats, non-synthetic work clothing, fall protection	Y

		mats, non-synthetic work clothing, fall protection when working at elevations.	
High Voltage Electrified Equipment Work	Electric shock, arc, explosion and burns, falling, confined spaces, vehicles in traffic areas	Hard hat, safety glasses, face shield, insulated gloves (rated for voltage of energized equipment), insulated blankets or mats, non-synthetic work clothes, safety shoes, fall protection when working at elevations, reflective clothing when working near traffic.	Y

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Department: Physical Plant, Housing _____

Supervisor: _____

Location / Worksite: _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Air Conditioning/Refrigeration Work	Water treatment chemicals	Chemical resistant gloves, safety glasses. When using large quantities of chemicals, a face shield & goggles	Y
Plumbing Work	Hot surfaces, rough surfaced materials, sewage	Heat resistant gloves, safety glasses, cut/puncture resistant gloves, rubber gloves	Y
General Maintenance Work	Rough surfaced materials, lifting/carrying	Cut/puncture resistant gloves, safety glasses, safety shoes	Y
Custodial Work	Cleaning chemicals, splashes	Chemical resistant gloves, safety glasses. When pouring large quantities of chemicals, a face shield & goggles.	Y
Refuse Work	Noise, sharp objects, garbage	Hearing protection, safety glasses, cut/puncture resistant gloves, rubber gloves, safety shoes	Y
Grounds Keeping Work	Pesticides, noise, flying particles, heat stress, insect and plants toxins	Hearing protection, safety glasses, protection from pesticides according to label, application, and reentry requirements, skin protection from insects and plants, safety shoes, gloves	Y
Pest Management Work	Pesticides, animals and plants	Protection from pesticides according to label, application, and reentry requirements, skin protection from animals and plants, safety glasses	Y
Tree Trimming work	Pesticides, falling, noise, flying particles, heat stress, insect and plant toxins	Fall protection, hearing protection, protection from pesticides according to label, application, and reentry requirements, skin protection from	Y

	plant toxins	and reentry requirements, skin protection from insects and plants, safety shoes, safety glasses, gloves	
Moving Work	Lifting/carrying	Safety shoes	Y

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Supervisor: _____

Location / Worksite: _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Plumbing Work	Hot surfaces, rough surfaced materials, sewage	Heat resistant gloves, cut/puncture resistant gloves, rubber gloves, safety glasses	Y
General Maintenance Work	Rough surfaced materials, lifting/carrying	Cut/puncture resistant gloves, safety shoes, safety glasses	Y
Machine Tools (drills, grinders and saws)	Flying particles	Safety glasses	Y
Arc Welding or Cutting	Electric shock, metal sparks, molten and hot metal, UV, IR and visible light, falling, dropping, rolling and sharp objects	Insulating mats or blankets, insulated/heat and puncture/cut resistant gloves, safety shoes, hard hat, safety glasses, welding shield or helmet with appropriate eye shade	Y
Moving Work	Lifting/carrying	Safety shoes, gloves	Y

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Scenic Carpenter _____

Date: 10/16/00 _____

Department: Theatre _____

Supervisor: _____

Location / Worksite: Auditorium, Wharton _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Operating saws and other power tools	Eye hazard, cuts from blade	Safety glasses with side shields (hearing protection), guard in place	Y
Operating metal saw	Eye hazard and skin hazard	Safety glasses with side shields and face shield, Long cuffed leather gloves	Y
Welding	Eye hazard, Hand and skin hazard	Welding helmet with appropriate shade protection, Long cuffed leather gloves	Y
Moving wood and metal pieces, lifting	Foot hazard, dropping objects and piercing objects, wood splinter, pinch	Leather work shoe/boot with thick sole, gloves	Y

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Grounds Keeper _____

Date: 10/16/00 _____

Department: Housing, Grounds, Physical Plant _____

Supervisor: _____

Location / Worksite: Campus, Stadium _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Use of powered ground keeping equipment; lawn mowers, weed whips, chainsaw etc	Skin and eye damage	Safety glasses, long sleeved shirts, long pants, cloth gloves	Y
Conducting any type of activities on an active fairway. Conducting activities with the potential for materials to be dropped onto head.	Impact	Hard hat	Y
Trash Clean up	Dust, cuts, noise	Mask, gloves, ear protection	Y
Use of Pruning devices	Cuts	Gloves	Y

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Laboratory Worker _____

Date: 09/17/03 _____

Department: All _____

Supervisor: _____

Location / Worksite: Research Buildings _____

Analysis: Dave Erickson _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Working with low hazard chemicals when a low probability of splash exists	Skin and eye irritation	Safety glasses, Light chemical resistant gloves, Lab coat, closed shoe, pants	Y
Working with smaller amounts (<1 liter) of corrosive or injurious chemicals where a reasonable probability of splash exists	Skin and eye damage	Chemical splash goggles, Light chemical resistant gloves, Lab coat, closed shoe, pants	
Working with larger quantities of corrosive liquids (> 1 liter), or toxic corrosives	Large surface area skin and eye damage, Poisoning, or Great potential for eye and skin damage	Chemical splash goggles & face shield, Appropriate heavy resistant gloves Lab coat, closed shoes, pants and chemical resistant apron	Y
Working with small volumes of organic solvents (< 1 liter)	Skin and eye damage Slight poisoning potential through skin absorption	Safety glasses, goggles if splash hazard exists, Light chemical resistant gloves Lab coat, closed shoe, pants	Y
Working with large volumes of organic solvents (> 1 liter), highly toxic organic solvents or work which may create a splash hazard	Major skin and eye damage Potential poisoning through skin absorption	Safety goggles & face shield Appropriate heavy resistant gloves Above clothes and chemical resistant apron	Y

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Laboratory Worker _____

Date: 09/17/03 _____

Department: All _____

Supervisor: _____

Location / Worksite: Research Buildings _____

Analysis: Dave Erickson _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Working with small volumes of human blood, body fluids or other potentially infectious materials (OPIM) as defined in the MSU Bloodborne Pathogen Exposure Control Plan	Potentially infected with infectious disease (BBP) Potential spread of infectious disease	Safety glasses Disposable nitrile gloves Lab coat, closed shoe, pants	Y
Working with large volumes of human blood, body fluids or other other potentially infectious materials and/or splash hazards	Increase potential of becoming infected with infectious disease (BBP) Increased potential spread of infectious disease	Safety goggles & face shield Nitrile gloves Lab coat, closed shoe, pants Coveralls and foot covers may be necessary	Y
Working with hazardous powders	Potential skin and eye damage, Potential for poisoning through skin absorption	Safety glasses Goggles for large quantities Light chemical resistant gloves Lab coat, closed shoe, pants	Y
Working with acutely toxic hazardous powders	Great potential skin and eye damage Great potential for poisoning through skin absorption	Safety goggles Appropriate chemical resistant gloves Lab coat, closed shoe, pants Coveralls and booties if necessary	Y
Working with dispersible radioactive materials	Potential tissue damage Potential spread of radioactive contamination	Appropriate eye protection, Disposable nitrile gloves Lab coat, closed shoe, pants	Y
Working with radioactive chemicals (corrosives, solvents, toxics, etc.)	See appropriate chemical section above Potential tissue damage Potential spread of radioactive	Safety glasses, goggles for splash hazard Light chemical resistant gloves Lab coat, closed shoe, pants Use PPE for applicable tasks above	Y

	contamination		
Working with radioactive human blood, body fluids or other potentially infectious materials	Potential tissue damage Potential spread of radioactive contamination Potential exposure to OPIM	Safety glasses, goggles for splash hazard Disposable nitrile gloves Lab coat, closed shoe, pants	Y
Working with sealed radioactive sources	Damaged or leaking source may spread contamination, Some leaking sources may pose an external dose risk.	Safety glasses, light gloves, shield may be needed for high energy sources	Y

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Job Title: Laboratory Worker _____

Date: 09/17/03 _____

Department: All _____

Supervisor: _____

Location / Worksite: Research Buildings _____

Analysis: Dave Erickson _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Working with cryogenic liquids	Major skin, tissue and eye damage	Chemical splash goggle and face shield Heavy insulated gloves Lab coat, closed shoe, pants	Y
Working with very cold materials and equipment (freezers, dry ice)	Frostbite Hypothermia	Safety glasses Insulated gloves and warm clothing Lab coat, closed shoe, pants	Y
Working with hot liquids, equipment and/or open flames (autoclave, bunsen burner, waterbath, oil bath)	Skin damage Eye damage	Safety glasses or goggles for large volumes or splash hazards Insulated gloves Lab coat, closed shoe, pants	Y
Working with large volumes of hot, cold, or cryogenic liquids	Major skin and eye damage Frozen or burned body tissues	Safety glasses or goggles and face shield Heavy insulated gloves Above clothes and apron or coveralls	Y
Working with Ultraviolet Radiation	Conjunctivitis Corneal eye damage Erythema	UV face shield and goggles Lab coat, closed shoe, pants	Y
Working with LASER radiation	Retinal eye damage Skin damage	Appropriate shaded goggles with optical density based on individual beam parameters Lab coat, closed shoe, pants No jewelry/reflective items allowed	Y

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MICHIGAN STATE
UNIVERSITY

Job Title: Laboratory Worker _____

Date: 09/17/03 _____

Department: All _____

Supervisor: _____

Location / Worksite: Research Buildings _____

Analysis: Dave Erickson _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Working with Infrared emitting equipment (glass blowing)	Cataracts and flash burns to cornea	Appropriate shaded goggles, Lab coat, closed shoe, pants	Y
Arc/TIG welding	Conjunctivitis Corneal eye damage Erythema	Appropriate shaded goggles Working gloves	Y
Instrument or equipment repair/service	Eye damage from foreign objects	Safety glasses No loose clothing or jewelry	Y
Metal working/Woodworking shop	Eye damage from foreign objects	Safety glasses No loose clothing or jewelry	Y
Glassware washing	Skin lacerations	Safety glasses, Heavy rubber gloves Lab coat, closed shoe, pants	Y
Working in Industrial lab with potential injury from falling equipment or tools (ex. Earthquake lab, Structural Engineering lab, etc.)	Head injury, foot injury	Hard-hat Steel toe boots	Y
Spill clean-up	See potential hazards for applicable task section	See applicable individual task section	Y
Changing Cryostat knife blade	Skin lacerations Potential infection by BBP	Skin lacerations Potential infection by BBP	Y

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Farm Worker _____

Date: 10/02/00 _____

Department: Farms / Land Management _____

Supervisor: _____

Location / Worksite: State Wide _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Farm Worker	Falls From machinery	Training on safe mount/dismount	No
Farm Worker	Powered shafts/belts	Disengage power for routine maintenance, gloves, lockout tag for extensive repair	Yes
Farm Worker	Sun burn, heat stress, frost bite	Training, proper clothing, sunscreen	Yes
Transport of equipment on highway/roads	Traffic crash	Traning on safe driving, Slow Moving Vehicle signs on equipment	No
Use of forks, shovels	Foot injury	Leather shoes or boots	Yes
Farm Worker	Rolling equipment could crush body/limbs	Training, park or wheel chocks	No
Mixing/application of Chemicals/Herbicides	Splash to face	Gloves, goggles	Yes

Personal Protective Equipment Hazard Assessment Certification

MICHIGAN STATE
UNIVERSITY

Job Title: Tree Trimmer _____

Date: 10-2-00 _____

Department: Grounds _____

Supervisor: _____

Location / Worksite: _____

Analysis: Dan Beachnau _____

Employee Name(s): _____

Signature: _____

Tasks, Job Classification or Workstation	Potential Hazard	Type of PPE Required	PPE Required (Yes / No)
Operating hand saw, chainsaw and wood chipper	Impact	Impact approved safety glasses or goggles and faceshield	Y
Trimming activities in, under, or around trees	Falling or rolling objects, splinters, cuts, abrasions	Hard had and safety boot, leather palm gloves	Y