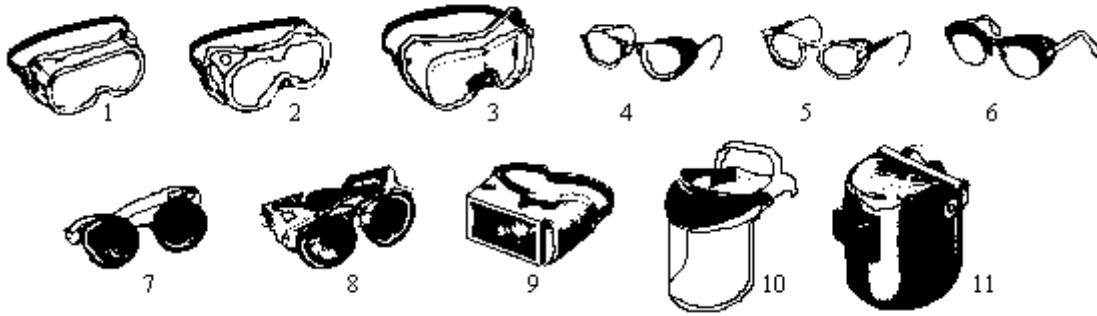


**TABLE E-1 : EYE AND FACE PROTECTOR SELECTION GUIDE**



1. GOGGLES, Flexible Fitting - Regular Ventilation
2. GOGGLES, Flexible Fitting - Hooded Ventilation
3. GOGGLES, Cushioned Fitting - Rigid Body
4. SPECTACLES, Metal Frame, with Sideshields (\*)
5. SPECTACLES, Plastic Frame - with Sideshields (\*)
6. SPECTACLES, Metal-Plastic Frame - with Sideshields (\*)
7. WELDING GOGGLES, Eyecup Type - Tinted Lenses (\*\*)
- 7A. CHIPPING GOGGLES, Eyecup Type - Clear Safety Lenses
8. WELDING GOGGLES, Coverspec Type - Tinted Lenses (\*\*)
- 8A. CHIPPING GOGGLES, Coverspec Type - Clear Safety Lenses
9. WELDING GOGGLES, Coverspec Type - Tinted Plate Lens (\*\*)
10. FACE SHIELD (Available with Plastic or Mesh Window)
11. WELDING HELMETS (\*\*)

Footnote(\*) Non-side shield spectacles are available for limited hazard use requiring only frontal protection.

Footnote(\*\*) See Table E-2, in paragraph (b) of this section, Filter Lens Shade Numbers for Protection Against Radiant Energy.

OPERATION	HAZARDS	RECOMMENDED PROTECTORS
Acetylene-Burning Acetylene-Cutting Acetylene-Welding	Sparks, harmful rays, molten metal, flying particles	7, 8, 9
Chemical Handling	Splash, acid burns, fumes	2, 10 (For severe exposure add 10 over 2)
Chipping	Flying particles	1, 3, 4, 5, 6, 7A, 8A
Electric (arc) welding	Sparks, intense rays, molten metal	9, 11, (11 in combination with 4, 5, 6, in tinted lenses advisable)
Furnace Operations	Glare, heat, molten metal	7, 8, 9 (For severe exposure add 10)
Grinding- Light	Flying particles	1, 3, 4, 5, 6, 10
Grinding- Heavy	Flying particles	1, 3, 7A, 8A (For severe exposure add 10)
Laboratory	Chemical splash, glass breakage	2 (10 when in combination with 4, 5, 6)
Machining	Flying particles	1, 3, 4, 5, 6, 10
Molten Metals	Heat, glare, sparks, splash	7, 8 (10 in combination with 4, 5, 6, in tinted lenses)
Spot welding	Flying particles, sparks	1, 3, 4, 5, 6, 10

## ***Harness Inspection (from Miller Fall Protection Website)***

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To inspect your harness or body belt, perform the following procedures.



### **1) Webbing**

Grasp the webbing with your hands 6 inches (152mm) to 8 inches (203mm) apart. Bend the webbing in an inverted “U” as shown. The surface tension resulting makes damaged fibers or cuts easier to detect. Follow this procedure the entire length of the webbing, inspecting both sides of each strap. Look for frayed edges, broken fibers, pulled stitches, cuts, burns and chemical damage.



### **2) D-Rings/Back Pads**

Check D-rings for distortion, cracks, breaks, and rough or sharp edges. The D-ring should pivot freely. D-ring back pads should also be inspected for damage.



### **3) Attachment of Buckles**

Inspect for any unusual wear, frayed or cut fibers, or broken stitching of the buckle or D-ring attachments.



### **4) Tongue/Grommets**

The tongue receives heavy wear from repeated buckling and unbuckling. Inspect for loose, distorted or broken grommets. Webbing should not have additional punched holes.



### **5) Tongue Buckles**

Buckle tongues should be free of distortion in shape and motion. They should overlap the buckle frame and move freely back and forth in their socket. Roller should turn freely on frame. Check for distortion or sharp edges.



### **6) Friction and Mating Buckles**

Inspect the buckle for distortion. The outer bars and center bars must be straight. Pay special attention to corners and attachment points at the center bar.



### **7) Quick-Connect Buckles**

Inspect the buckle for distortion. The outer bars and center bars must be straight. Make sure dual-tab release mechanism is free of debris and engages properly.

## ***Lanyard Inspection (from Miller Fall Protection Website)***

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When inspecting lanyards, begin at one end and work to the opposite end, slowly rotating the lanyard so that the entire circumference is checked. Additionally, follow the procedures below.



### **1) Hardware**

**A) Snaps:** Inspect closely for hook and eye distortions, cracks, corrosion, or pitted surfaces. The keeper (latch) should seat into the nose without binding and should not be distorted or obstructed. The keeper spring should exert sufficient force to firmly close the keeper. Keeper locks must prevent the keeper from opening when the keeper closes.



**B) Thimbles:** The thimble must be firmly seated in the eye of the splice, and the splice should have no loose or cut strands. The edges of the thimble must be free of sharp edges, distortion, or cracks.



### **2) Wire Rope Lanyard**

While rotating the wire rope lanyard, watch for cuts, frayed areas, or unusual wearing patterns on the wire. Broken strands will separate from the body of the lanyard.



### **3) Web Lanyard**

While bending webbing over a pipe or mandrel, observe each side of the webbed lanyard. This will reveal any cuts or breaks. Swelling, discoloration, cracks and charring are obvious signs of chemical or heat damage. Observe closely for any breaks in stitching.



### **4) Rope Lanyard**

Rotate the rope lanyard while inspecting from end-to-end for any fuzzy, worn, broken or cut fibers. Weakened areas from extreme loads will appear as a noticeable change in original diameter. The rope diameter should be uniform throughout, following a short break-in period.



### **5) Shock Absorber Pack**

The outer portion of the pack should be examined for burn holes and tears. Stitching on areas where the pack is sewn to D-rings, belts or lanyards should be examined for loose strands, rips and deterioration.



### **6) Shock-Absorbing Lanyard**

Shock-absorbing lanyards should be examined as a web lanyard (described in item 3 above). However, also look for the warning flag or signs of deployment. If the flag has been activated, remove this shock-absorbing lanyard from service.

## ***Self-Retracting Lifeline Inspection (from Miller Fall Protection Website)***

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### **1) Check Housing**

Before every use, inspect the unit's housing for loose fasteners and bent, cracked, distorted, worn, malfunctioning or damaged parts.



### **2) Lifeline**

Test the lifeline retraction and tension by pulling out several feet of the lifeline and allow it to retract back into the unit. Always maintain a light tension on the lifeline as it retracts.

The lifeline should pull out freely and retract all the way back into the unit. Do not use the unit if the lifeline does not retract. The lifeline must be checked regularly for signs of damage. Inspect for cuts, burns, corrosion, kinks, frays or worn areas. Inspect any sewing (web lifelines) for loose, broken or damaged stitching.



### **3) Braking Mechanism**

The braking mechanism must be tested by grasping the lifeline above the impact indicator and applying a sharp steady pull downward which will engage the brakes. There should be no slippage of the lifeline while the brakes are engaged, once tension is released, the brakes will disengage and the unit will return to the retractable mode. Do not use the unit if the brakes do not engage.

Check the hardware as directed in 1A under Lanyard Inspection. The snap hook load indicator is located in the swivel of the snap hook. The swivel eye will elongate and expose a red area when subjected to fall arresting forces. Do not use the unit if the load impact indicator has been activated.

VISUAL INDICATIONS OF DAMAGE TO WEBBING AND LANYARDS				
Type of Webbing	Heat	Chemical	Molten Metal or Flame	Paint and Solvents
Nylon & Cordula	In excessive heat, nylon becomes brittle and has a shriveled brownish appearance. Fibers will break when flexed. Should not be used above 200 degrees F.	Change in color usually appearing as a brownish smear or smudge. Transverse cracks when belt is bent over a mandrel. Loss of elasticity in belt.	Webbing strands fuse together. Hard shiny spots. Hard and brittle feel. Will not support combustion.	Paint, which penetrates and dries restricts movement of fibers. Drying agents and solvents in some paints will appear as chemical damage.
Polyester (Dacron*)	Same as nylon, except do not use above 180 degrees F.	Same as nylon.	Same as nylon, except will support combustion.	Same as nylon

A. After performing the inspection procedures, any equipment found to be damaged or defective shall be tagged **“DANGER UNSAFE – DO NOT USE”** and removed from service.

B. After performing the inspection procedures, test performed shall be recorded. This record shall be kept by means of color-coding. These inspection procedures should always be completed by the 15<sup>th</sup> of the appropriate month

Jan	Red	March	Blue	May	White
July	Brown	Sept.	Yellow	Nov.	Orange

C. All required tests shall be performed:

- Before each use
- Before equipment is used after any incident which can be reasonably suspected to have caused damage.
- Once every other month, by the 15<sup>th</sup> day of the month

## Hazard Assessment

### Aerial Lifts

Hazards	Describe Specific Hazards	PPE Required
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#### Eye/Face Hazards

Dust	Dust/debris in eyes from wind	Wear ANSI Z87.1 approved safety glasses w/side shields
		If wind and dust conditions are above normal levels, goggles must also be worn.

#### Working at Heights

Fall	Fall from elevation	Wear full body harness and lanyard
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#### Feet

Electrical Shock	Shock from contact with electrical conductors	Refer to ESCO Group Electrical Safety Program for safe approach distances
Impact	Crushing injury	Wear ANSI approved safety toe shoes

#### Hands

Cuts	Contact with sharp edges	Wear gloves
Crushing injury	Hands in between lift rails and stationary objects	Wear gloves and keep hands inside of lift
Electrical shock	Shock from contact with electrical conductors	Refer to ESCO Group Electrical Safety Program for safe approach distances

#### Head

Electrical shock	Shock from contact with electrical conductors	Wear the Company issued Class "G" rated hardhats. Refer to ESCO Group Electrical Safety Program for safe approach distances.
Impact	Bumping into objects overhead	Wear the Company issued hardhat

**Hazard Assessment  
Daily Driving**

Hazards	Describe Specific Hazards	PPE Required
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**Eye Hazards**

Glare/Sun	Driving into glare of the sun.	Wear sunglasses
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**Hands**

Cuts	Loading material that has sharp edges	If loading sharp edged material into a vehicle, cut resistant gloves must be worn.
Crushing	Getting hands caught in between material that is being loaded in the vehicle	Wear general duty work gloves.

**Body**

Crushing	Being ejected from vehicle due to overturned vehicle	A seatbelt must be worn at all times when driving a vehicle
Impact	Being hit by or hitting another vehicle or object	A seatbelt must be worn at all times when driving a vehicle.

**Hazard Assessment  
Grinding**

Hazards	Describe Specific Hazards	PPE Required/Safe Practices
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**Eye/Face Hazards**

Dust	Dust/debris in eye from wind	Wear ANSI Z87.1 approved safety glasses w/side shields or "spoggle" style eyewear
Flying debris	Grinding particles	Wear a face shield

**Feet**

Impact	Falling material	Wear ANSI/ATSM approved safety toed shoes
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**Hands**

Cuts	Cut from handling material with sharp edges	Wear cut resistant gloves
Burns	Hot material	Wear leather work glove

**Head**

Impact	Bumping into objects overhead	Wear company issued hardhats
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### Hazard Assessment Wire Terminations

Hazards	Describe Specific Hazards	PPE Required
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#### Eye/Face Hazards

Impact	Excess wire or insulation coming in contact with glasses	Wear ANSI approved safety glasses w/side shields
Dust	Nuisance dust and debris in area	Wear ANSI approved safety glasses w/side shields

#### Feet

Crushing injury	Dropping material on toes	Wear ANSI approved safety toed footwear
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#### Hands

Cuts	Cuts from using knife to strip wire/cable	Wear cut resistant gloves
Pinched	Pinched from getting caught in between tool handles	Wear general duty work gloves
Electrical shock	Shock from contact with electrical conductors	Refer to ESCO Group Electrical Safety Program for safe approach distances.

#### Head

Electrical shock	Shock from contact with electrical conductors	Wear the company issued class "G" rated hardhats. Refer to ESCO Group Electrical Safety Program for safe approach distances.
Impact	Bumping into object overhead	Wear the company issued hardhat.

### Hazard Assessment De-Energization

Hazards	Describe Specific Hazards	PPE Required
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#### Eye/Face Hazards

Arc Flash	Burns or flash from an arc flash accident	Wear an arc flash shield along with safety glasses
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#### Feet

Electrical Shock	Shock from exposed steel toe on boot/shoe	Wear EH rated boots/shoes which must be in good condition
Impact	Dropped equipment/material	Wear ANSI approved safety toed boots/shoes

#### Hands

Electrical Shock	Shock or burns from an arc flash incident or an electrical shock	Wear insulated gloves according to the tables in ESCO Group Electrical Safety Program
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#### Head

Electrical Shock	Shock from contact with electrical conductors	Wear the Company issued class "G" rated hardhats. Refer to ESCO Group Electrical Safety Program for safe approach distances.
Impact	Bumping into objects overhead	Wear the Company issued hardhat.



**Hazard Assessment  
Using a Drill (Hammer Drill Included)**

Hazards	Describe Specific Hazards	PPE Required
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**Eye/Face Hazards**

Dust	Dust/debris from drilling procedures	Wear ANSI Z87.1 approved safety glasses w/side shields
	Flying particles, shavings from drilling overhead	Wear ANSI approved safety glasses w/side shields- must be "spoggle" design

**Hands**

Caught in between	Hand(s) contacting equipment near drilling procedures (line-of-fire)	Wear general duty work gloves
Cuts	Sharp edges on bit	Wear gloves while preparing the drill

**Head**

Impact	Bumping into objects overhead	Wear the company issued hardhat.
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**Hearing**

Loud Noise	Loud noise from drill motor running and bit drilling into concrete	Wear appropriate hearing protection
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**Hazard Assessment  
Conduit Installation (cutting, threading, bending)**

Hazards	Describe Specific Hazards	PPE Required/Safe Practices
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**Eye/Face Hazards**

Dust	Flying particles, shavings from cutting and threading conduit	Wear ANSI approved safety glasses w/side shields
	Nuisance dust	Wear ANSI approved safety glasses w/side shields
	Flying particles, shavings from cutting and threading conduit overhead	Wear ANSI approved safety glasses w/side shields- must be "spoggle" design

**Feet**

Impact	Dropping material on toes	Wear ANSI approved safety toed shoes
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**Hands**

Cuts	Sharp edges	Wear cut resistance gloves
Crushing injury	Handling material pinched between material and bender	Wear general duty work gloves

**Head**

Impact	Bumping into objects overhead	Wear Company issued hardhat
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**Hazard Assessment  
Demolition/Site Clear**

Hazards	Describe Specific Hazards	PPE Required/Safe Practices
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**Eye/Face Hazards**

Dust	Dust/debris in eyes from wind	Wear ANSI Z87.1 approved safety glasses w/side shields
	Flying particles, shavings from: cutting, removing, drilling equipment overhead	Wear ANSI approved safety glasses w/side shields- must be "spoggle" design

**Feet**

Impact	Crushing injury	Wear ANSI approved safety toe shoes
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**Hands**

Cuts	Cuts from handling sharp material	Wear cut resistant gloves
Crushing injury	Handling material and getting hand caught between two objects (line-of-fire)	Wear general duty work gloves.
Electrical Shock	Checking for presence of voltage with meter before disconnecting wire.	Wear gloves that are rated for the type of work check ESCO Group Electrical Safety Program for correct level of glove.

**Head**

Electrical Shock	Shock from contact with electrical conductors	Wear the company issued class "G" rated hardhats. Refer to ESCO Group Electrical Safety Program for safe approach distances.
Impact	Bumping into objects overhead	Wear the company issued hardhat.

**Hazard Assessment  
General Housekeeping**

Hazards	Describe Specific Hazards	PPE Required/Safe Practices
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**Eye/Face Hazards**

Dust	Dust/debris in eyes from wind	Wear ANSI Z87.1 approved safety glasses w/side shields
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**Feet**

Impact	Crushing injury	Wear ANSI approved safety toed shoes
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**Hands**

Cuts	Handling sharp material	Wear cut resistant gloves
Crushing Injury	Dropping material or getting hand caught in between two objects (line-of-fire)	Wear general duty work gloves

**Head**

Impact	Bumping into objects overhead	Wear the company issued hardhat.
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**Hazard Assessment  
Core Drilling**

Hazards	Describe Specific Hazards	PPE Required
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**Eye/Face Hazards**

Impact	Foreign material entering eyes	Wear ANSI Z87.1 approved safety glasses w/side shields
Dust	Flying particles and shavings from drilling overhead	Wear ANSI approved safety glasses w/side shields- must be "spoggle" design

**Feet**

Impact	Crushing injury	Wear ANSI approved safety toe shoes
		Make sure drill is secured.
		Core slug falling

**Hands**

Cuts	Cuts from handling core drill bits	Wear general work gloves

**Head**

Impact	Bumping into objects overhead	Wear company issued hardhat
	Falling debris from overhead drilling	Wear company issued hardhat

**Hazard Assessment  
Operating Forklift**

Hazards	Describe Specific Hazards	PPE Required
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**Eye/Face Hazards**

Dust	Dust/debris in eyes from wind	Wear ANSI Z87.1 approved safety glasses w/side shields
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**Feet**

Impact	Crushing injury	Wear ANSI approved safety toe shoes
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**Hands**

Cuts	Handling sharp material after loading/unloading	Wear cut resistant gloves
Crushing injury	Placing hands between material and stationary object or equipment	Wear general duty work gloves.

**Head**

Impact	Material falling from elevated height above	Wear the company issued hardhat
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**Body**

Crushing	Falling out of the fork from turning corner to sharp or fast	Wear seatbelt restraint device
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	Being ejected from forklift due to overturned equipment	Wear seatbelt restraint device.
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### Hazard Assessment Jackhammer

Hazards	Describe Specific Hazards	PPE Required/Safe Practices
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#### Eye/Face Hazards

Dust	Nuisance Dust	Wear ANSI Z87.1 approved safety glasses w/side shields
	Flying particles, shavings from cutting and threading conduit overhead	Wear ANSI approved safety glasses w/side shields- must be "spoggle" design

#### Feet

Impact	Crushing injury	Wear ANSI approved safety toe shoes and metatarsal guards
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#### Hands

Caught in between	Hands(s) contacting equipment near jackhammer procedures	Wear general duty work gloves
	Hands and fingers pinched while removing debris that has been jack hammered	Wear general duty work gloves

#### Head

Impact	Bumping into objects overhead	Wear the company issued hardhat.
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### Hazard Assessment Material Handling

Hazards	Describe Specific Hazards	PPE Required/Safe Practices
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#### Eye/Face Hazards

Dust	Dust debris from wind or material	Wear ANSI approved safety glasses with side shields
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#### Feet

Impact/crushing	From dropped material	Wear ANSI approved safety toed shoes
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#### Hands

Cuts	Cuts from handling material with sharp edges	Wear cut resistant gloves
Crushing injury	Getting hand caught in between equipment of other material (line of fire)	Wear general duty work gloves

#### Head

Impact	From falling material or debris	Wear company issued hardhat
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**Hazard Assessment  
Pulling Wire**

<b>Hazards</b>	<b>Describe Specific Hazards</b>	<b>PPE Required/Safe Practices</b>
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**Eye/Face Hazards**

Dust	Dust/debris in eyes	Wear ANSI approved safety glasses w/side shields
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**Working at Heights**

Fall	Fall from elevation	Wear full body safety harness and lanyard
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**Feet**

Impact	Crushing injury from dropping material/spools of wire on toes	Wear ANSI approved safety toe shoes
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**Hands**

Crushing injury	Striking hand against equipment or other material in the area	Wear general duty work gloves.
Cuts	Cut from contacting sharp edges(panels)	Wear cut resistant gloves
Electrical Shock	Coming in contact with live electrical components	If pulling wire in live panels, guard the live parts with an insulated blanket and check ESCO Group Electrical Safety Program for clearances for live parts and PPE required.

**Head**

Electrical Shock	Getting to close to live electrical components	Wear the company issued "G" rated hardhat and check ESCO Group Electrical Safety Program for clearances.
Impact	Contacting material overhead	Wear the company issued hardhat

**Hazard Assessment  
Skid Loader**

<b>Hazards</b>	<b>Describe Specific Hazards</b>	<b>PPE Required</b>
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**Eye/Face Hazards**

Dust	Dust/debris in eyes from wind	Wear ANSI Z87.1 approved safety glasses w/side shields and if equipped with a door, keep it closed.
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**Feet**

Impact	Material falling on feet from rolling into cab	Wear ANSI rated safety toed shoes
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**Hands**

Crushing injury	Hands being caught between machinery	Wear gloves and keep hands inside of equipment.
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**Head**

Impact	Falling debris from bucket	Wear company issued hardhat
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**Body**

Impact	Getting thrown out of skid loader by hitting a solid object	A seatbelt restraint must be worn at all times when in the seat of the skid loader
Crushing	Being ejected from a skid loader due to overturned equipment	A seatbelt restraint, must be worn at all times when in the seat of the skid loader.

**Hazard Assessment  
Using Meters for Voltage Testing**

Hazards	Describe Specific Hazards	PPE Required/Safe Practices
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**Eye/Face Hazards**

Arc Flash	Intense light/possible flying material	Wear Arc Flash shield and refer to ESCO Group Electrical Safety Program for clearances
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**Feet**

Electric Shock	Possible electric shock	Wear EH rated safety footwear required by ESCO Group
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**Hands**

Electric Shock	Coming in contact with live parts	Wear insulated gloves w/leather protectors and refer ESCO Group Electrical Safety Program for class and clearances.
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**Head**

Electrical Shock	Shock from contact with electrical conductors	Wear the company issued class "G" rated hardhats. Refer to ESCO Group Electrical Safety Program for Safe Approach Distances.
Impact	Bumping into overhead objects	Wear company issued hardhat.

**Hazard Assessment  
Welding**

Hazards	Describe Specific Hazards	PPE Required/Safe Practices
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**Eye/Face Hazards**

Welding flash	Harmful rays	Proper shaded lens (refer to ESCO Group Personal Protective Program for proper shaded lens)
Flying particles	Chipping slag	Wear safety glasses

**Feet**

Impact	Dropping material on feet	Wear ANSI approved safety toed footwear.
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**Hands**

Cuts	Handling sharp material	Wear cut resistant gloves
Crushing injury	Getting hands caught in between material	Wear general duty gloves
Burns	Burn from hot material and burns from welding	Wear welding gloves

**Head**

Impact	Falling debris	If welding in an area where there is work overhead, wear a hardhat welding shield.
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**Hazard Assessment  
Battery Inspection and Service**

<b>Hazards</b>	<b>Describe Specific Hazards</b>	<b>PPE Required/Safe Practices</b>
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**Eye/Face Hazards**

Electrolyte Splash	Sulfuric Acid	Wear ANSI approved safety glasses with side shields in conjunction with face shield. Chemical resistant goggles can be used in place of face shield and safety glasses
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**Feet**

Impact	Dropping material on feet	Wear ANSI approved safety toed footwear
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**Hands**

Burns	Burn from Sulfuric Acid	Wear appropriate chemical resistant gloves
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**Head**

Impact	Falling debris	If welding in an area where there is work overhead, wear a hardhat welding shield.
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**Body**

Electrolyte Splash	Sulfuric Acid	Wear appropriate chemical resistant apron
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