

SECTION 6.0

PERSONAL PROTECTIVE EQUIPMENT

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Document Change History

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1 Purpose

The purpose of this ALU Personal Protection Equipment (PPE) Procedure is to reduce personal exposure to Health and Safety (H&S) Risks and Hazards arising from job execution.

This procedure identifies a best practices approach for PPE Management. This approach follows the Hierarchy of Controls when managing hazards and identifying the need for PPE.

ALU Operations can adopt this Procedure and/or supplement their locally existing Procedures to make them consistent with this Procedure.

2 Scope

Provisions of this document apply to ALU Line Management, Project Management and to all ALU Employees, Directly Supervised Contractors, and Contractor Companies in the course of their job for ALU.

3 Roles and Responsibilities

Individual/Group	Role/Responsibility
Local EHS Committee	<ul style="list-style-type: none">• Evaluating the effectiveness of this PPE Procedure• Reviewing and updating existing work practices and hazard controls. Recommend hazard elimination, reduction, control measures or PPE in adherence to the hierarchy of controls.• Promote the adherence to the utilization of specified PPE.
EHS Manager/Coordinator	<ul style="list-style-type: none">• Coordinating the process to determine the need of specification of use of PPE by ALU Employees;• Be familiar with EHS laws and regulations, ALU EHS Company and Other Requirements (i.e. Customer) specifically including PPE; and review, understand and communicate these requirements to the line managers / project managers for ensuring compliance;• Receiving, developing, making available and delivering -if qualified to do so- PPE Training;

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	<ul style="list-style-type: none"> • Work with Project Management to implement an Inspections Procedure to verify adherence to provisions of this PPE Procedure; including evaluation of proper selection and use of specified PPE; • Initiating corrective action for documented gaps related to PPE usage. • Interfacing with supervisors, line managers, senior managers and employees as necessary to ensure adherence to established EHS Provisions; • Ensure the Subcontractor Employees adhere to provisions of the Subcontractor EHS Manual, PPE usage included.
Employees at all levels of the organization	<p>All employees are responsible for the occupational health and safety of themselves, of those they manage and others with whom they work. In addition, when PPE is needed, Employees are responsible for;</p> <ul style="list-style-type: none"> • Performing all work activities in accordance with instructions and supervision guidance, including the use of PPE appropriate for each work activity; • Receiving equipment-specific PPE instruction before using PPE and performing work activities requiring PPE; • Wearing PPE that is appropriate for each work activity, as assigned by their supervisor; • Inspecting each piece of PPE to ensure that it is in good condition before each use; • Reading and following the manufacturer's recommendations for use, cleaning and maintenance; • Labeling "Unfit for use", quarantining and properly disposing of all malfunctioning, beyond expiration date or contaminated PPE and informing supervisor of need for replacement.

	<p>All employees have the right to refuse to work in conditions which they reasonably consider as posing an imminent and serious danger to their life or health or the lives or health of others, without reprisal, even when controls such as PPE, have been implemented. The employee must immediately notify their supervisor of such a situation and decision, so that remedies can be developed.</p>
<p>Installation Managers (alternatively named Line Managers)</p>	<ul style="list-style-type: none"> • Ensuring that adequate resources are available to implement the PPE Procedure; • Providing for the immediate corrective action of identified H&S Risks & Hazards. Take corrective action in the case of EHS violations including warnings and disciplinary action when circumstances warrant such action as an appropriate measure.
<p>Installation Supervisors (alternatively named Rollout Supervisors or Line Managers)</p>	<ul style="list-style-type: none"> • Ensuring that they and all of their employees receive the required, appropriate, and timely EHS training and are instructed in safe work practices and procedures; • Ensuring that employees have been instructed in the proper use, care, storage and limitations of their specific PPE; • Ensuring that ALU employees receive required training in safe work practices & procedures and keep appropriate documentation of the training records. • Ensuring that visitors and contractors follow local PPE requirements • Leading by example and holding individual employees accountable for: <ul style="list-style-type: none"> - Using appropriate PPE (e.g., safety glasses, hard hats, safety shoes, personal fall arrest system, etc.); - Ensuring that Pre-job Safety Meetings and/or Job Safety Analysis -as applicable- are conducted before the start-up of any new project, or in existing processes / procedures which have been modified;
<p>Project Managers</p>	<ul style="list-style-type: none"> • Ensuring that adequate resources are available to provide training, safe tools & equipment and PPE to employees and directly

	supervised contractors working under their leadership;
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4 Definitions and Acronyms

The ALU Terminology (alterm) database provides terms, acronyms and abbreviations with definitions, technical concepts and related links:

<http://www.alcatel.com/group/cto/tm/alterm/homepage/homeALterm.htm>

The link provided above is useful, but sometimes it provides multiple choices for one acronym.

ALU	Alcatel-Lucent
ANSI	American National Standards Institute
EHS	Environment(al), Health and Safety
EHSMS	Environment(al), Health and Safety Management System
EU - CE	European Union - Conformité Européenne (European Conformity)
HR	Alcatel-Lucent Human Resources Organization
H&S	Health & Safety
JSA	Job Safety Analysis
PPE	Personal Protective Equipment
UL	Underwriters Laboratories

ALU Regional EHS Leader - is the individual assigned to handle specific EHS responsibilities supporting Field Force and BLs for the installation / operations in a specific Region.

Contractor- a non-employee worker engaged to provide temporary services (such as clerical, administrative, management, professional or technical) to ALU on a contract-basis with a third party, and are generally paid on a time and materials basis. They provide individual-based staff augmentation or project-based work and are employees of a 3rd party supplier. For staff augmentation only, they may be supervised to some minimal extent by an Alcatel-Lucent employee but should have supervision by their employer (the supplier) to the maximum extent possible. They may perform services that are also performed by Alcatel-Lucent employees.

Directly Supervised Contractor- a non-employee worker engaged to provide temporary services (such as clerical, administrative, management, professional or technical) to ALU on a contract-basis with a third party, and are generally paid on a time and materials basis. They provide individual-based staff augmentation or project-based work and are employees of a 3rd party

supplier. They are directly supervised by an Alcatel-Lucent employee. They may perform services that are also performed by Alcatel-Lucent employees.

Employee - a person engaged to provide services (such as clerical, administrative, management, professional or technical) to ALU. ALU has responsibility for employment, compensation, benefit and training management.

Note. The previous three definitions might vary in some particular countries; further, these can be regulation - based; if that is the case, please adhere to the local definitions. For the scope of this PPE Procedure these are employees or contractors performing installation work at Customer or ALU Sites (i.e. Real Estate Employees or Contractors as applicable) or visiting sites where installation work is taking place.

For instance, the [NAR Definitions for Contractor Employees](#).

EHSMS - Environmental, Health and Safety Management System.

EHS Manager or Coordinator - is the ALU Employee or Contractor assigned to handle specific EHS responsibilities for the operations of a section of a country, or cluster of countries.

Guidelines - offer advice on practices, which if followed, would be deemed to be compliant with the requirements. Adherence to the guidelines developed by the ALU Corporate EHS Office is not mandatory and local processes can be followed as long as they are documented and meet the requirements sections of this document.

Installation operations - are those deployment-related work activities and processes performed by ALU to meet the needs of its customers, including the design, construction, maintenance and integration of communications equipment and systems, as well as the warehousing and provisioning of the equipment to the customer's location.

Job Safety Analysis (JSA): formal, detailed review of the potential H&S Risks & Hazards presented by a job or task and the measures to use to eliminate or mitigate the potential hazards. Also known as a Job Hazard Analysis.

Legal (alternative regulatory) requirements - are those country and local EHS laws and regulations that apply to the installation operations in a particular country.

Line Managers - are all Installation supervisors and managers involved in installation operations.

Requirement: a need or expectation that is stated and obligatory designated by the terms “shall”, “required”, “must” and “mandatory”.

Recommendation: a suggestion about what should be done designated by the terms “should”, “may”, “recommended”, “advised” and “can”

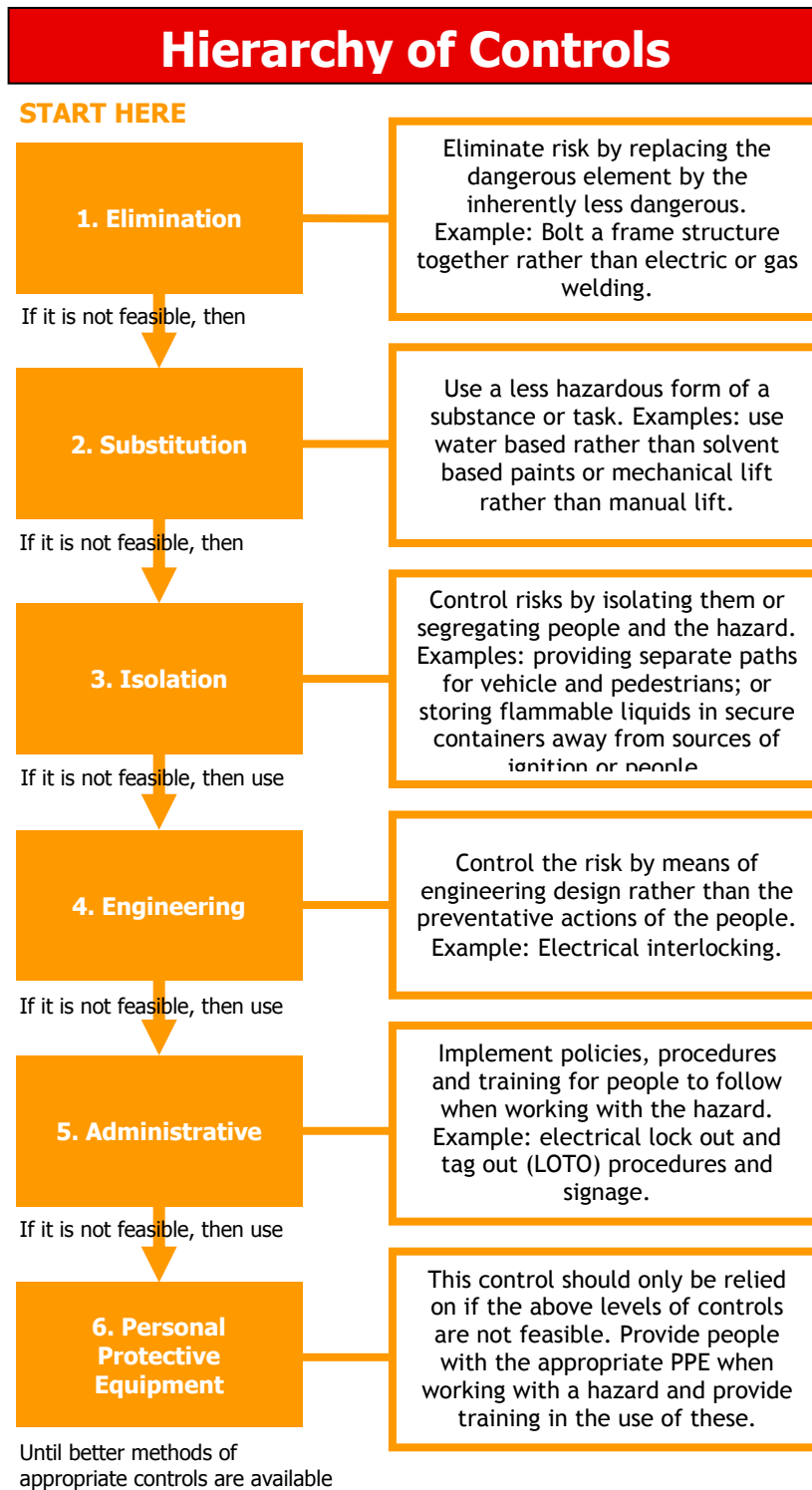
Services - is the prime ALU organization responsible for consulting, installing, maintaining, operating, deploying and servicing ALU products and communications systems.

Target Employee - are Employees or Contractors -as applicable- that, as a result of the application of the Hierarchy of Controls for H&S Risks and Hazards, were identified as needing to be provided and wear PPE.

5 Referenced and Supplementary Documents

Appendices	Document Title
Appendix A	PPE Hazard Assessment Certification Form
Appendix B	Safety checklist for Fall Protection Equipment
Section 3	Tower Climbing Safety
NA	Subcontractor EHS Manual (included in Contract Clauses under EHS Section)

6 Process Flow Diagram



The above is an illustration of the Hierarchy of Controls process when deciding whether PPE shall be used for control of identified risks and hazards.

7 Process/ Procedure/ Work Instruction

The Hierarchy of Controls described in section 6 is for the management of H&S Risks & Hazards.

As described in the Roles and Responsibilities Section of this Procedure Document, each ALU Functional Area shall apply every effort to address H&S Risks & Hazards at the early stages of control and in the sequence established in the Process Flow Diagram in Section 6.

If, after implementing controls following the hierarchy described, such controls do not provide satisfactory protection to personnel; then the appropriate PPE shall be investigated, evaluated and specified for ALU Employees, Directly Supervised Contractors and Contractor Companies.

7.1 Process to Investigate, Evaluate and Specify Personal Protection Equipment.

The EHS Manager or Coordinator shall coordinate the process (i.e. via Job Safety Analysis) to determine the need and specify the appropriate PPE for use by ALU Personnel and Contractors as applicable; in collaboration with the local Engineering, Line Managers and Other Support Organizations and Contractors Representatives, as applicable.

This Process shall be a collaborative Team effort and shall ensure that the PPE specified provides enough protection, supplementary to other controls, while maintaining reasonable comfort and mobility for the user.

ALU Corporate EHS Office has developed and made available reference tools for the Teams working to determine the need for use and specifying PPE, i.e. [Job Safety Analysis](#) and the PPE Hazard Assessment Certification Form (Appendix A).

Where local regulations or Customer EHS requirements establish a process more stringent for the specification of PPE, then those shall be followed.

When specifying the PPE needed, the Team (Sec 7.1 paragraph 2) shall consider, at a minimum, the PPE identified by work activity in Table 1.

The EHS Manager or Coordinator shall provide the specifications for the PPE needed to the Procurement organization, Line Management and the Target Employees

Note. If wearing certain PPE generates allergic response in the user, use of this PPE shall be discontinued and this shall be immediately reported to the Supervisor and the Safety

Coordinator for them to identify alternatives in PPE type and material and in the tasks being performed that require its use.

Table 1 - PPE by Work Activity

Work Activity	Required Personal Protective Equipment
Aligning frames	Safety Glasses, Work Gloves, Hard Hat
Working below overhead work, where a danger of falling objects and/or particles exists	Safety Glasses, Hard Hat
Work where airborne particle hazard exists	Safety Glasses, Nuisance Dust Mask
Assembling iron work	Safety Glasses, Work Gloves
Breaking or drilling stone, concrete or masonry	Safety Glasses, Hearing Protection†
Buffing or polishing	Safety Glasses
Packing or unpacking equipment	Safety Glasses
Using paints or chemicals	Safety Glasses or Safety Goggles , Impervious Gloves , Nitrile Disposable Gloves
Cutting wire banding straps with safety band cutter	Safety Glasses, Work Gloves
Removing batteries	Safety Glasses or Safety Goggles , Impervious Gloves , Chemical Spill Kit , Nitrile Disposable Gloves , 15 Minute Portable Eyewash with Solution (or local eyewash facility)
	Latex Disposable Boots
Removing ironwork or equipment	Safety Glasses, Nuisance Dust Mask , Work Gloves , Hard Hat
Handling cathode ray tubes or fluorescent lamps	Safety Glasses
Handling hazardous materials	Safety Glasses, Chemical Disposal Coveralls , Work Gloves
Hoisting & positioning of batteries	Safety Glasses or Safety Goggles , Face Shield , Impervious Gloves , Acid Proof Apron , Chemical Disposal Coveralls , Chemical Spill Kit , Latex Disposable Boots , 15 Minute Portable Eyewash with Solution (or local eyewash facility)
Hoisting	Safety Glasses, Hard hat
Framing	Safety Glasses, Hard hat , Work Gloves
Working on cable racks	Safety Glasses, Work Gloves , Hard Hat
Working with electrical boxes or conduit	Safety Glasses, Low Voltage Rubber Gloves
Working with track or rolling ladders	Safety Glasses, Hard Hat
Installing or removing threaded rods in ceilings	Safety Glasses, Hard Hat
Working in Confined Spaces	Hard hat, Safety Glasses, Work Gloves (depending on tasks), Rescue Harness (depending on the type of Confined

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	Space).
	Note: If Environmental monitoring confirms the presence of any contaminant, even below Threshold Concentrations, DO NOT ENTER until a full evaluation has been completed and any PPE for breathing, etc. has been verified according to the site specific Confined Space Procedure.
Installing batteries or battery cables	Safety Glasses, Low Voltage Rubber Gloves , Cotton Gloves
Maintaining batteries or handling electrolyte	Face Shield , Safety Goggles, Chemical Spill Kit , Latex Disposable Boots , 15 Minute Portable Eyewash with Solution (or local eyewash facility)
Assembling	Safety Glasses
Opening cable holes	Safety Glasses, Nuisance Dust Mask
Packing or unpacking batteries	Safety Glasses or Safety Goggles , Face Shield , Chemical Spill Kit , Latex Disposable Boots , 15 Minute Portable Eyewash with Solution (or local eyewash facility)
Removing mineral wool or rock wool	Safety Glasses, Nuisance Dust Mask , Chemical Disposal Coveralls, Work Gloves
Chiseling or staking	Safety Glasses
Cleaning with compressed air	Safety Glasses
Using power tools	Safety Glasses
Sewing	Safety Glasses, Work Gloves
Using hand tools	Safety Glasses, Work gloves
Pulling cable and wire	Safety Glasses, Work Gloves ,
Moving cable reels	Safety Glasses, Work Gloves
Running bulk cable or motor driven cable puller	Safety Glasses, Work Gloves
Removing lead covered cable	Safety Glasses or Safety Goggles , Chemical Disposal Coveralls , Work Gloves Respirator for Hazardous Areas †
Soldering	Safety Glasses
Wiring	Safety Glasses, Protective Sleeve; Fingerless Leather Gloves.
Working on or in close proximity to live electrical equipment	Safety Glasses, Low Voltage Rubber Gloves , Protective Sleeve , Hard Hat
Working in areas with hazardous particles, dust, mist, vapors or fumes (including lead or asbestos)	Safety Glasses or Safety Goggles, Respirator for Hazardous Areas†
Performing work operations or conducting tests when machines are running	Safety Glasses, Hearing Protection†
Inspecting, observing or supervising inside plant	Safety Glasses

work with no overhead work or building construction

Inspecting, observing or supervising inside plant Safety Glasses, Hard Hat

work with overhead work or building construction in progress

Monitoring Equipment Delivery Performed by Helicopter Lifts Safety Goggles, Hard Hats (use of chin straps is recommended)

Working above dangerous equipment; or working at 1.8 meters or greater (6 feet) above ground level and within 1.8 meters (6 feet) of an unprotected edge (no wall or guardrail) such as on rooftops; or using boom lifts, or scissors lifts without guardrails; or climbing a fixed ladder that is over 20 feet in length without a protective caging system. Safety Glasses, Personal Fall Arrest System

Inspecting or supervising outside plant work Safety Glasses, Hard Hat

† - Requires validation by the ALU Environment, Health and Safety Corporate Office before providing it to employee.

7.2 Process for issuing and delivery of PPE.

ALU Supervisors and Line Managers (with the assistance of the EHS Managers or Coordinators) shall implement this process for the issuance of the PPE specified for the type of job to be performed and H&S Risks & Hazards identified.

They shall record:

The description of PPE delivered,

The training delivered (including testing, cleaning, fitting and maintenance procedures), subsequent updates or replacement of PPE and the corresponding dates,

The signature of the Target Employee - In countries where there is a requirement to maintain a record of the delivery of PPE to Target Employees with their signature of receipt.

7.3 Process for Verification of Use and Physical Integrity of PPE

ALU Line Managers shall verify the use of PPE by Target Employees. The EHS Managers or Coordinators will assist in the development of the verification Procedure based on the scope of the project.

This verification shall include:

- Identification of the PPE needed by job position and type of activity (this might have already been done as part of 7.1),
- Verification of the applicable compliance labels in the PPE,
- Verification in the field of the correct utilization of the specified PPE,
- Verification with the Target Employees of their knowledge about the utilization and inspection/maintenance of their own PPE, means for reporting any gap found,
- Completion of any needed corrective actions.

Note: In a number of cases the manufacturer of PPE also provides guidance on when and how to inspect, care and maintain PPE. Some of these guides may include the time due for retirement of use and replacement of PPE.

Note: In a number of countries it is a requirement that this verification be made by a duly trained (and in some cases certified) Technician or Professional; where this requirement exists, ALU Supervisors shall ensure that this provision is complied with.

Of special attention shall be the inspection & verification of the physical and usable conditions of PPE; that in some cases will have to be performed by a duly trained (and in some cases certified) Technician or Professional i.e. In the case of working at heights, PPE such as a harness or climbing lanyard, in addition to daily inspections, the equipment may also require inspection and / or testing by the original manufacturer or competent person to ensure that it continues to conform to specifications. An example of in-country regulations on this matter is the Ireland Safety, Health and Welfare at Work (General Application) Regulations 2007, Section 4 Working at Height.

8 Measures

Not applicable

9 Records

The following records are to be maintained to demonstrate compliance with this ALU PPE Procedure:

1. PPE Verification Form (Hazard Assessment Certification Form)
2. Credentials and/or certifications by Technician or Professional inspecting PPE (if required by local regulations).

Note: In many cases these records are maintained in the individuals' personal file under control of local ALU HR.

End of Document Text

APPENDIX A PPE Hazard Assessment Certification Form

This tool can help you do a hazard assessment to determine if your employees need to use personal protective equipment (PPE) by identifying activities that may create hazards for your employees and is to be used in adherence with the Hierarchy of Controls established in ALU PPE Document No.....

The activities are grouped according to what part of the body might need PPE. You can make copies, modify and customize it to fit the specific needs of your particular work place, or develop your own form that is appropriate to your work environment.

This tool can also serve as written certification that you have done a hazard assessment. Document your hazard assessment for PPE. Make sure that the blank fields at the beginning of the checklist (indicated by *) are filled out (see below, Instructions #4).

Instructions:

1. Do a walk through survey of each work area and job/task. Read through the list of work activities in the first column, putting a check next to the activities performed in that work area or job.
2. Read through the list of hazards in the second column, putting a check next to the hazards to which employees may be exposed while performing the work activities or while present in the work area. (for e.g., work activity: chopping wood; work-related exposure: flying particles).
3. Decide how you are going to control the hazards. Try considering engineering, work place, and/or administrative controls to eliminate or reduce the hazards before resorting to using PPE. If the hazard cannot be eliminated without using PPE, indicate which type(s) of PPE will be required to protect your employee from the hazard.
4. Make sure that you complete the following fields on the form (indicated by *) to certify that a hazard assessment was done:

*Name of your work place/site

*Address of the work place/site where you are doing the hazard assessment

*Name of person certifying that a workplace hazard assessment was done

*Date the hazard assessment was done

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APPENDIX A

PPE Hazard Assessment Certification Form

*Name of work place/site: _____

*Assessment conducted by: _____

*Work place/site address: _____

*Date of assessment: _____

Work area(s): _____

Job/Task(s): _____

*Required for certifying the hazard assessment.

Use a separate sheet for each job/task or work area

9.1.1.1.1.1.1 EYES

Work activities, such as:

- | | |
|---|------------------------------------|
| <input type="checkbox"/> abrasive blasting | <input type="checkbox"/> sanding |
| <input type="checkbox"/> chopping | <input type="checkbox"/> sawing |
| <input type="checkbox"/> cutting | <input type="checkbox"/> grinding |
| <input type="checkbox"/> drilling | <input type="checkbox"/> hammering |
| <input type="checkbox"/> welding | |
| <input type="checkbox"/> punch press operations | |
| <input type="checkbox"/> other: ____ | |

Work-related exposure to:

- ☐ airborne dust
- ☐ flying particles
- ☐ blood splashes
- ☐ hazardous liquid chemicals
- ☐ intense light
- ☐ other: ____

Can hazard be eliminated without the use of PPE?

Yes ☐ No ☐

If no, use:

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> Safety glasses | <input type="checkbox"/> Side shields |
| <input type="checkbox"/> Safety goggles | <input type="checkbox"/> Dust-tight |
| <input type="checkbox"/> Shading/Filter (#____) | <input type="checkbox"/> goggles |
| <input type="checkbox"/> Welding shield | |
| <input type="checkbox"/> Other: ____ | |

9.1.1.1.1.1.2 FACE

Work activities, such as:

- | | |
|--|---|
| <input type="checkbox"/> cleaning | <input type="checkbox"/> foundry work |
| <input type="checkbox"/> cooking | <input type="checkbox"/> welding |
| <input type="checkbox"/> siphoning | <input type="checkbox"/> mixing |
| <input type="checkbox"/> painting | <input type="checkbox"/> pouring molten |
| <input type="checkbox"/> dip tank operations | metal |
| <input type="checkbox"/> other: ____ | |

Work-related exposure to:

- ☐ hazardous liquid chemicals
- ☐ extreme heat/cold
- ☐ potential irritants: ____
- ☐ other: ____

Can hazard be eliminated without the use of PPE?

Yes ☐ No ☐

If no, use:

- ☐ Face shield
- ☐ Shading/Filter (#____)
- ☐ Welding shield

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		<input type="checkbox"/> Other: ____
9.1.1.1.1.2 HEAD		
<u>Work activities, such as:</u> <input type="checkbox"/> building maintenance <input type="checkbox"/> confined space operations <input type="checkbox"/> construction <input type="checkbox"/> electrical wiring <input type="checkbox"/> walking/working under catwalks <input type="checkbox"/> walking/working under conveyor belts <input type="checkbox"/> walking/working under crane loads <input type="checkbox"/> utility work <input type="checkbox"/> other: ____	<u>Work-related exposure to:</u> <input type="checkbox"/> beams <input type="checkbox"/> pipes <input type="checkbox"/> exposed electrical wiring or components <input type="checkbox"/> falling objects <input type="checkbox"/> machine parts <input type="checkbox"/> other: ____	<u>Can hazard be eliminated without the use of PPE?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> <u>If no, use:</u> <input type="checkbox"/> Protective Helmet (Hardhat) <input type="checkbox"/> Type A (low voltage) <input type="checkbox"/> Type B (high voltage) <input type="checkbox"/> Type C <input type="checkbox"/> Bump cap (not ANSI-approved) <input type="checkbox"/> Hair net or soft cap <input type="checkbox"/> Other: ____
HANDS/ARMS		
<u>Work activities, such as:</u> <input type="checkbox"/> baking <input type="checkbox"/> material handling <input type="checkbox"/> cooking <input type="checkbox"/> sanding <input type="checkbox"/> grinding <input type="checkbox"/> sawing <input type="checkbox"/> welding <input type="checkbox"/> hammering <input type="checkbox"/> working with glass <input type="checkbox"/> using computers <input type="checkbox"/> using knives <input type="checkbox"/> dental and health care services <input type="checkbox"/> other: ____	<u>Work-related exposure to:</u> <input type="checkbox"/> blood <input type="checkbox"/> irritating chemicals <input type="checkbox"/> tools or materials that could scrape, bruise, or cut <input type="checkbox"/> extreme heat/cold <input type="checkbox"/> other: ____	<u>Can hazard be eliminated without the use of PPE?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> <u>If no, use:</u> <input type="checkbox"/> Gloves <input type="checkbox"/> Chemical resistance <input type="checkbox"/> Liquid/leak resistance <input type="checkbox"/> Temperature resistance <input type="checkbox"/> Abrasion/cut resistance <input type="checkbox"/> Slip resistance <input type="checkbox"/> Protective sleeves

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		<input type="checkbox"/> Other: ____
9.1.1.1.1.3 FEET/LEGS		
<u>Work activities, such as:</u> <input type="checkbox"/> building maintenance <input type="checkbox"/> construction <input type="checkbox"/> demolition <input type="checkbox"/> food processing <input type="checkbox"/> foundry work <input type="checkbox"/> logging <input type="checkbox"/> plumbing <input type="checkbox"/> trenching <input type="checkbox"/> use of highly flammable materials <input type="checkbox"/> welding <input type="checkbox"/> other: ____	<u>Work-related exposure to:</u> <input type="checkbox"/> explosive atmospheres <input type="checkbox"/> explosives <input type="checkbox"/> exposed electrical wiring or components <input type="checkbox"/> heavy equipment <input type="checkbox"/> slippery surfaces <input type="checkbox"/> tools <input type="checkbox"/> other: ____	<u>Can hazard be eliminated without the use of PPE?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> <u>If no, use:</u> <input type="checkbox"/> Safety shoes or boots <input type="checkbox"/> Toe protection <input type="checkbox"/> Metatarsal protection <input type="checkbox"/> Electrical protection <input type="checkbox"/> Heat/cold protection <input type="checkbox"/> Puncture resistance <input type="checkbox"/> Chemical resistance <input type="checkbox"/> Anti-slip soles <input type="checkbox"/> Leggings or chaps <input type="checkbox"/> Foot-Leg guards <input type="checkbox"/> Other: ____
9.1.1.1.1.4 BODY/SKIN		
<u>Work activities such as:</u> <input type="checkbox"/> baking or frying <input type="checkbox"/> battery charging <input type="checkbox"/> dip tank operations <input type="checkbox"/> fiberglass installation <input type="checkbox"/> irritating chemicals <input type="checkbox"/> sawing <input type="checkbox"/> other: ____	<u>Work-related exposure to:</u> <input type="checkbox"/> chemical splashes <input type="checkbox"/> extreme heat/cold <input type="checkbox"/> sharp or rough edges <input type="checkbox"/> other: ____	<u>Can hazard be eliminated without the use of PPE?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> <u>If no, use:</u> <input type="checkbox"/> Vest, Jacket <input type="checkbox"/> Coveralls, Body suit <input type="checkbox"/> Raingear <input type="checkbox"/> Apron <input type="checkbox"/> Welding leathers

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		<input type="checkbox"/> Abrasion/cut resistance <input type="checkbox"/> Other: ____
BODY/WHOLE ¹		
<u>Work activities such as:</u> <input type="checkbox"/> building maintenance <input type="checkbox"/> telecom installation/removal <input type="checkbox"/> construction <input type="checkbox"/> logging <input type="checkbox"/> utility work <input type="checkbox"/> other: ____	<u>Work-related exposure to:</u> <input type="checkbox"/> working at heights of 10 feet or more <input type="checkbox"/> working near water <input type="checkbox"/> working near motorway <input type="checkbox"/> working near railroad <input type="checkbox"/> working near power lines <input type="checkbox"/> working in a tunnel <input type="checkbox"/> working in a confined space <input type="checkbox"/> working in a trench <input type="checkbox"/> working in cold/hot climates <input type="checkbox"/> other: ____	<u>Can hazard be eliminated without the use of PPE?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> <u>If no, use:</u> <input type="checkbox"/> Fall Arrest/Restraint: Type: ____ <input type="checkbox"/> PFD: Type: ____ <input type="checkbox"/> Reflective Vest, Jacket <input type="checkbox"/> Heat/cold protective Clothing <input type="checkbox"/> Other: ____ *(See Footnote 1)
LUNGS/RESPIRATORY ¹		
<u>Work activities such as:</u> <input type="checkbox"/> cleaning <input type="checkbox"/> mixing <input type="checkbox"/> painting <input type="checkbox"/> fiberglass installation <input type="checkbox"/> compressed air or gas operations <input type="checkbox"/> other: ____	<u>Work-related exposure to:</u> <input type="checkbox"/> irritating dust or particulate <input type="checkbox"/> irritating or toxic gas/vapor <input type="checkbox"/> other: ____	<u>Can hazard be eliminated without the use of PPE?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> <u>If no, use:</u> <input type="checkbox"/> Respirator: Type: ____ <input type="checkbox"/> Dust Mask: Type: ____ <input type="checkbox"/> Other: ____

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		*(See Footnote 1)
EARS/HEARING ¹		
<u>Work activities such as:</u> <input type="checkbox"/> generator <input type="checkbox"/> ventilation fans <input type="checkbox"/> motors <input type="checkbox"/> sanding <input type="checkbox"/> pneumatic equipment <input type="checkbox"/> punch or brake presses <input type="checkbox"/> use of conveyors <input type="checkbox"/> other: ____	<u>Work-related exposure to:</u> <input type="checkbox"/> grinding <input type="checkbox"/> machining <input type="checkbox"/> routers <input type="checkbox"/> sawing <input type="checkbox"/> loud noises <input type="checkbox"/> loud work environment <input type="checkbox"/> noisy machines/tools <input type="checkbox"/> punch or brake presses <input type="checkbox"/> other: ____	<u>Can hazard be eliminated without the use of PPE?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> <u>If no, use:</u> <input type="checkbox"/> Ear Plugs Type: ____ <input type="checkbox"/> Earmuffs Type: ____ <input type="checkbox"/> Other: ____ *(See Footnote 1)

(1) NOTE: This checklist is not all inclusive, You should consider all hazards when you conduct your hazard assessment.

APPENDIX B- SAFETY CHECKLIST FOR FALL PROTECTION EQUIPMENT

SAFETY CHECKLIST FOR FALL PROTECTION EQUIPMENT

(to be checked prior to and after each use¹)LOCATION⁶ A3

FAIL PASS

HARNESS- ID INFO⁷-

WEBBING ²	CUTS	NO
	REQUIRES CLEANING	NO
	CHEMICAL EXPOSURE/DAMAGE ³	NO
	ABRADED	NO
	BURNED	NO
	MILDEWED	NO
	OTHER	NO
	LIST _____	

STITCHING	CUT/ BROKEN/ PULLED OUT	NO
	BURNED	NO
	MISSING	NO
	OTHER	NO
	LIST _____	

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BUCKLES/ D-

RING/ KEEPERS	DEFORMED/ MISSING	NO
	CORRODED/RUSTED	NO
	CHEMICAL EXPOSURE/DAMAGE ³	NO
	OTHER	NO
	LIST _____	

LANYARD- ID INFO⁷-

CONNECTING

DEVICES ⁵	GATE WORKS FREELY	YES
	DOUBLE LOCK WORKS CORRECTLY	YES
	DEFORMED	NO
	CORRODED/RUSTED	NO
	CHEMICAL EXPOSURE/DAMAGE ³	NO
	OTHER	NO
	LIST _____	

WEBBING ²	CUTS	NO
	REQUIRES CLEANING	NO
	CHEMICAL EXPOSURE/DAMAGE ³	NO
	ABRADED	NO
	BURNED	NO
	MILDEWED	NO
	OTHER	NO

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LIST _____

RETRACTOR	LANYARD WITHDRAWS/ RETRACTS SMOOTHLY	YES
	LOCKING ACTION WORKS CORRECTLY	YES
	OTHER	NO
	LIST _____	

ROPE² - ID INFO⁷ -

ROPE	CUTS	NO
	REQUIRES CLEANING	NO
	CHEMICAL EXPOSURE/DAMAGE ³	NO
	ABRADED	NO
	BURNED	NO
	MILDEWED	NO
	OTHER	NO
	LIST _____	

CONNECTING

DEVICES ⁵	GATE WORKS FREELY	YES
	DOUBLE LOCK WORKS CORRECTLY	YES
	DEFORMED	NO
	CORRODED/RUSTED	NO
	CHEMICAL EXPOSURE/DAMAGE ³	NO
	OTHER	NO
	LIST _____	

SHOCK ABSORBER- ID INFO⁷- _____

CHEMICAL EXPOSURE/DAMAGE ³	NO
OTHER	NO
LIST _____	

ROPE GRAB- ID INFO⁷- _____

OPERATING CORRECTLY ⁴	YES
DEFORMED	NO
CORRODED/RUSTED	NO
CHEMICAL EXPOSURE/DAMAGE ³	NO
OTHER	NO
LIST _____	

CABLE SLING- ID INFO⁷- _____

DEFORMED	NO
CORRODED/RUSTED	NO
CHEMICAL EXPOSURE/DAMAGE ³	NO
OTHER	NO
LIST _____	

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OTHER COMPONENTS- (list item and findings)

GENERAL

HAS ANY COMPONENT
BEEN SUBJECTED TO A
SHOCK LOAD

NO

(ANY COMPONENT SUBJECTED
TO A SHOCK LOAD (A Fall)
SHOULD BE REMOVED FROM
SERVICE UNTIL RECERTIFIED BY
THE
MANUFACTURER OR REPLACED.
Contact your NARO rep. or LWS
EHS for direction. An Incident
Report must be filed.)

COMMENTS

NOTES:

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1- The kit should be inspected prior to and after each use by the user and at least annually by a competent person other than the user.

The annual inspection should be documented and maintained in a file in the local toolroom or other appropriate location.

2- The webbing and rope should be inspected at 6" intervals bending it to listen for crackling noises which could indicate breaking fibers.

3-Damage = excessive heating, alteration, too much/little lubrication, excessive aging/wear, or missing parts. If there has been a chemical exposure the manufacturer

should be contacted to see if the specific chemical is detrimental to the material that was exposed. The component should be removed from service until the

manufacturer's recommendations are implemented.

4- Check operation of all levers/controls of the rope grab.

5- Connecting devices are Snap Hooks and Carabiners which should all be double acting devices.

6- Location- if the kit is normally stored in toolroom list address, if assigned to installer list name and area serviced.

7- ID info= model #, Serial #, date of manufacture, or any other identifying information listed on the component.