

Hazard Analysis Form

This form can be used by Fermilab Employees, Fermilab Supervisors, Fermilab Task Managers, Construction Coordinators, Service Coordinators and Fermilab Subcontractors. This is a dynamic document which may require modification as the project moves from start to finish and should be readily available at the site where the work is being performed.

Note: Not all sections of the first page are applicable to every job or task, complete what is necessary for your specific job or task.

Job Title _____

Job Location _____

Contract/Work Order # _____

TO BE COMPLETED FOR WORK INVOLVING SUBCONTRACTORS

Subcontractor (if applicable)

Fermilab

Company _____

Project Eng/C.M. _____

Project Manager _____

Phone _____

Phone _____ Page _____

TM/CC/SC _____

ESH Rep. _____

Phone _____ Page _____

Phone _____ Page _____

ES&H Rep. _____

Phone _____ Page _____

AT LEAST TWO SIGNATURES ARE REQUIRED

Prepared _____ Date _____

Print Name _____

Accepted _____ Date _____

Print Name _____

Accepted as noted _____ Date _____

Print Name _____

Description of Work: _____

Personal Protective Equipment: (Check all that are required for the job.)

- | | |
|--|---|
| <input type="checkbox"/> Safety glasses (marked Z87+; Z87-2+ for prescription) | <input type="checkbox"/> Chemical splash goggles |
| <input type="checkbox"/> Hearing Protection | <input type="checkbox"/> Hard Hats |
| <input type="checkbox"/> 3.0 Brazing goggles | <input type="checkbox"/> Impact goggles |
| <input type="checkbox"/> Face shield | <input type="checkbox"/> Rubber apron |
| <input type="checkbox"/> Leather gloves | <input type="checkbox"/> Hot/Cold thermal protective gloves |
| <input type="checkbox"/> Chemical resistant gloves (specify type): _____ | <input type="checkbox"/> Respirators |
| <input type="checkbox"/> Other required PPE (specify): _____ | <input type="checkbox"/> Safety footwear (specify) _____ |
| | <input type="checkbox"/> Fall protection equipment (specify): _____ |

Environmental Impacts (Required - check one):

- Yes, I have thought about the potential environmental impacts (see Guidelines for Completing the HA on page 4) of this job and will document such impacts and mitigation steps within this document.
- Yes, I have thought about the environmental impacts of this job and no such credible impacts exist and therefore do not need to be written in this document.

Equipment required for the job: (List the tools needed to perform the job.)

Work Plan History Information: (List any lessons learned incidents from this job, tips from previous jobs)

Improvement/Feedback: At the conclusion of the job, the Task Manager, Supervisor and/or Project Leader shall work with those involved to consider lessons learned and receive feedback in order to improve future work plans.

Check One:

- Yes** we have considered lessons learned and accepted feedback on this job and will communicate such information so that future work plans may be improved.
- Yes** we have considered lessons learned feedback and determined that future work plans do not need to be improved.

Utilizing the format below, identify hazards and environmental aspects, and their corresponding safety precautions/procedures to mitigate hazards. Use as many sheets as necessary.

HAZARD ANALYSIS

Step	Description	Safety Hazards/ Potential Impacts to Environment	Precautions / Safety Procedures / Controls
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

GUIDELINES FOR COMPLETING THE HAZARD ANALYSIS

Phase of Work	Safety Hazards/Potential Environmental Impacts	Precautions/Procedures/Controls
<p>Examining a specific job by breaking it down into a series of steps or tasks, will enable you to discover potential hazards employees may encounter.</p> <p>Each job or operation will consist of a set of steps or tasks. For example, the job might be to move a box from a conveyor in the receiving area to a shelf in the storage area. To determine where a step begins or ends, look for a change of activity, change in direction or movement.</p> <p>Picking up the box from the conveyor and placing it on a hand truck is one step. The next step might be to push the loaded hand truck to the storage area (a change in activity). Moving the boxes from the truck and placing them on the shelf is another step. The final step might be returning the hand truck to the receiving area.</p> <p>Be sure to list <i>all</i> steps needed to perform the job. Some steps may not be performed each time; an example could be checking the casters on the hand truck. However, if that step is generally part of the job it should be listed.</p> <p>Close observation and knowledge of the job is important. Examine each step carefully to find and identify hazards- the actions, conditions, and possibilities that could lead to an accident. Compiling an accurate and complete list of potential hazards will allow you to develop the recommended safe job procedures needed to prevent accidents.</p>	<p>A safety hazard is a potential danger to a person or equipment. An environmental impact is a change to the environment. The purpose of the Hazard Analysis (HA) is to identify ALL hazards- including those produced by the environment, those connected with the job procedure, and those with the potential to result in an environmental impact.</p> <p>To identify hazards, ask yourself these questions about each step:</p> <p>Is there a danger of the employee striking against, being struck by, or otherwise making injurious contact with an object?</p> <p>Can the employee be caught in, by, or between objects?</p> <p>Is there potential for slipping, tripping, or falling?</p> <p>Could the employee suffer strains from pushing, pulling, lifting, bending, or twisting?</p> <p>Is the work environment hazardous to safety and/or health (toxic gas, vapor, mist, fumes, dust, heat, or radiation)?</p> <p>Are there electrocution hazards?</p> <p>Will action require soil/erosion control?</p> <p>Will chemicals or petroleum products be used in an area where they could be released into the environment?</p> <p>Will action have the potential to affect storm water (drains, ponds, or streams in the vicinity)?</p> <p>Will action have the potential to affect the sanitary water system?</p> <p>Will action involve refrigerants?</p> <p>Will any regulated or recyclable waste be generated?</p>	<p>Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the hazards that could lead to an accident, injury, or occupational illness.</p> <p>Consider the hierarchy of controls:</p> <ol style="list-style-type: none"> (1) Elimination (physically remove the hazard) (2) Substitution (replace with something less hazardous) (3) Engineering controls (isolate the hazard) (4) Administrative controls (change the work) (5) PPE <p>List the recommended safe operating procedures. Begin with an action word. Say exactly what needs to be done to correct the hazard, such as, “lift using your leg muscles.” Avoid general statements such as, “be careful”, “use caution”, and “be alert”.</p> <p>List the required or recommended personal protective equipment necessary to perform each step of the job.</p> <p>Give a recommended action or procedure for each hazard.</p> <p>Serious hazards should be corrected immediately. The HA should then be changed to reflect the new conditions.</p> <p>Finally, review your input on all three columns for accuracy and completeness. Determine if the recommended actions or procedures have been put in place. Re-evaluate the job safety analysis as necessary.</p>

