

# Job Hazard Analysis (JHA) Overview

## What is a Job Hazard Analysis (JHA)?

 A JHA is a method for identifying and evaluating hazards associated with tasks (steps) with a specific job or activity and eliminating or mitigating them prior to starting work.

#### Why conduct a JHA?

• A JHA can prevent work-related injuries or illnesses by eliminating or controlling identified hazards. It is a means to ensure that workers have the training, equipment, and supplies to do their jobs safely.

### Who should conduct a JHA?

• Individuals who perform the tasks that are being evaluated. Supervisors shall review the JHA with their employees prior to starting job.

# Procedure for Completing a Job Hazard Analysis

- **1.** Job or Task Description: Define the job or activity.
- 2. Sequence of Job Tasks: Break down the job or activity into tasks (steps). A single task can be the combination of minor actions.
- 3. Hazards and Consequences: For each task identify all of the hazards and consequences that could occur. Think about the inherent hazards of the material, equipment or activity; what could go wrong (failures and/or modes of failure); what is worst-case consequence.
- Ladder work severe injury, fatal fall **Biological exposure - infection** □ Poor housekeeping – congestion; Repetitive tasks - Musculoskeletal Disorder (MSD) injury slip, trip, or fall; injuries Strain from lifting, pushing, or pulling - MSD injury □ Machinery – moving parts; □ Working in awkward position - MSD injury amputation Lighting problem - seizures, headache □ Flammable Liquids – vapors; Falling object – struck by; injury fire/explosion **Radiation** - exposure Hazardous materials - uncontrolled □ Weather conditions affect safety spill/release Thermal – cold/heat - burn, dehydration □ Noise - hearing loss Other □ Electricity - shock and/or arc flash Other Dusts, fumes, mists, or vapors in air Other - inhalation Oxygen displacement - asphyxiation □ Confined space - hazardous atmosphere; engulfment; fatality □ Portable tools – projectiles; eye injury □ Contact with hot, toxic, or caustic chemical/product - burn, injury



4. Controls (Prevention Measures): Identify existing controls to eliminate or mitigate the potential hazard/consequence scenario. If the consequence is severe, try to use inherently safe controls or engineering controls and multiple controls to mitigate the risk. Some controls can help prevent the likelihood of the accident scenario by preventing the occurrence or reducing the severity of the consequence.				
Inh	erent Safety Elimination Substitution Process changes (reduce volume, changing operating parameters, etc.) fineering Secondary containment (berms, vaults) Install guards on machine moving parts Use scaffold or lift instead of ladder Ventilate the area Detection and alarm systems (interlocks and notification) Use platform ladder instead of regular step ladder Guardrails (permanent or temporary) Emergency showers/eyewash Pressure relief Isolate the area (barriers) Insulate noisy equipment	Sai	fe Work Practices and Administrative Safe work practices Standard Operating Procedures (SOP) JHAs Work permits (LOTO, CSE) Use tool lanyards at heights Reduce exposure time Training Spill kits Emergency response team Exposure control plan Other rsonal Protective Equipment (PPE) Safety glasses/goggles/face shield Gloves (specify type) Skin protection (lab coat/Tyvek suit) Respiratory protection	
	Fire protection - sprinklers and alarm		Respiratory protection Personal fall protection equipment	
	Fire extinguisher		Hearing protection	
	Other		Hard hat	
			Impact/radiation shielding	
			Other	
	5. Use JHA template form to complete the JHA: In addition to listing the hazards/consequences and controls for each			

job step, list the required training and PPE.