MERCURY

Job Hazard Analysis

26 – 30 April 2027
Washington DC (USA)



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Introduction

The Job Hazard Analysis program builds a systematic understanding of how to identify workplace hazards before they result in incidents. It focuses on breaking down tasks into clear steps to evaluate risks associated with each activity. It strengthens awareness of unsafe conditions, human factors, and environmental risks in different operational settings. The course emphasizes proactive risk control methods to improve workplace safety performance. Participants will learn how hazard identification supports compliance with occupational health and safety standards. It further develops analytical thinking to support safer decision-making across industries.

Targeted Groups

This Job Hazard Analysis training targets professionals seeking knowledge and skills:

- Safety officers in industrial and construction environments.
- Health and safety coordinators and supervisors.
- Operations and maintenance staff in high-risk sectors.
- Engineers are responsible for workplace risk control.
- Facility management and site inspectors.
- Quality assurance and compliance personnel.
- Team leaders manage operational tasks.
- Employees involved in manual or technical work.

Course Objectives

Participants will achieve the following objectives by completing the Job Hazard Analysis course:

- Understand core principles of job hazard analysis and risk evaluation.
- Identify workplace hazards through structured task breakdown methods.
- Assess risk levels associated with specific job steps and activities.
- Apply hazard identification techniques in real operational environments.
- Develop preventive control measures to reduce workplace incidents.
- Improve decision-making skills for safer work procedures.
- Strengthen compliance with occupational health and safety requirements.
- Integrate hazard analysis into daily operational workflows.

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Targeted Competencies

Participants will gain the following competencies during the Job Hazard Analysis program:

- Ability to perform structured job hazard analysis processes.
- Skill in identifying physical, chemical, and ergonomic hazards.
- Competence in evaluating risk severity and likelihood levels.
- Capability to document hazard control measures clearly.
- Understanding of workplace safety management systems.
- Proficiency in applying preventive safety controls effectively.
- Awareness of operational risk reduction techniques.
- Skill in improving workplace safety culture and awareness.

Studying Scenarios

In this Job Hazard Analysis training, participants develop skills through the following scenarios:

- Breaking down construction tasks to identify potential fall and equipment risks.
- Evaluating maintenance work to detect electrical and mechanical hazards.
- Analyzing warehouse operations for lifting and movement-related risks.
- Reviewing industrial processes to identify chemical exposure hazards.
- Assessing office environments for ergonomic and repetitive strain risks.
- Studying incident cases to determine root causes and preventive actions.

Course Content

Unit 1: Introduction to Job Hazard Analysis

- Understanding job hazard analysis principles and the importance of workplace safety.
- Overview of hazard identification in occupational safety management systems.
- Relationship between job hazard analysis and risk assessment procedures.
- Key terminology used in workplace hazard evaluation and control.
- Importance of proactive safety planning in reducing workplace incidents.
- Role of hazard analysis in improving organizational safety performance.
- Basic steps involved in conducting a structured job safety analysis.

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Unit 2: Identifying Workplace Hazards

- Classification of hazards, including physical, chemical, biological, and ergonomic.
- Techniques for observing tasks and identifying unsafe conditions.
- Understanding human error and behavioral risk factors in workplaces.
- Recognizing environmental hazards in different operational settings.
- Identifying equipment-related risks during daily job activities.
- Methods for documenting hazards in structured reporting formats.
- Linking task steps with potential hazard sources effectively.

Unit 3: Risk Assessment and Evaluation

- Understanding risk levels based on likelihood and severity.
- Applying risk matrices in job hazard analysis processes.
- Evaluating high-risk tasks in industrial and operational environments.
- Prioritizing hazards based on impact and exposure levels.
- Differentiating between acceptable and unacceptable risk conditions.
- Using data to support hazard evaluation decisions.
- Integrating risk evaluation into safety planning systems.

Unit 4: Control Measures and Prevention Strategies

- Developing engineering controls to eliminate workplace hazards.
- Applying administrative controls to reduce risk exposure.
- Using personal protective equipment as a last line of defense.
- Designing safe work procedures for high-risk activities.
- Implementing preventive maintenance to reduce operational hazards.
- Establishing safety protocols for emergencies.
- Monitoring the effectiveness of implemented control measures.

Unit 5: Implementation and Continuous Improvement

- Integrating job hazard analysis into daily operational workflows.
- Developing workplace safety monitoring and reporting systems.
- Conducting regular safety audits and hazard reviews.
- Updating hazard analysis based on new workplace conditions.
- Encouraging employee participation in safety improvement processes.
- Measuring safety performance through key indicators.
- Building a culture of continuous improvement in workplace safety.

Final Insights & Key Takeaways

Job Hazard Analysis strengthens proactive safety thinking by systematically identifying and controlling workplace risks before incidents occur. It builds a structured approach that enhances compliance, operational safety, and long-term risk reduction across all work environments.