



Developing Industrial Hygiene Sampling Plan Course

23 – 27 November 2026
New York (USA)



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Introduction to Developing Industrial Hygiene Sampling Plan:

Understanding the definition of industrial hygiene and its role in safeguarding workers from occupational hazards is essential for creating a secure and healthy work environment. Our Developing Industrial Hygiene Sampling Plan training course provides a guide to the fundamentals of industrial hygiene, focusing on designing and implementing effective industrial hygiene sampling strategies for workplace contaminants.

Participants in this Developing Industrial Hygiene Sampling Plan course delve into industrial hygiene principles, offering the skills and knowledge to manage exposure assessment, regulatory compliance, and industrial hygiene evaluation. They will be competent in developing industrial hygiene sampling plans that adhere to industry best practices and regulatory standards, ensuring both worker safety and compliance.

The Developing Industrial Hygiene Sampling Plan training course provides an understanding of industrial hygiene's fundamentals. Participants will explore the importance of industrial hygiene and its role in maintaining workplace safety. It covers the various industrial hygiene equipment used in evaluations, including sampling equipment, sampling pumps, and tools for collecting air and surface samples.

The Developing Industrial Hygiene Sampling Plan course teaches participants about industrial hygiene sampling methods and helps them create an effective sampling plan and strategy. It offers a detailed industrial hygiene sampling guide, including forms and techniques essential for evaluating exposure levels. Participants will be equipped with industrial hygiene to implement safe practices and solutions, ensuring a healthier work environment.

Targeted Groups:

The Developing Industrial Hygiene Sampling Plan training course is designed for:

- Industrial hygiene technicians are responsible for maintaining health and safety standards.
- Occupational Health and Safety Professionals aiming to expand their expertise in industrial hygiene sampling methods.
- Environmental Health Specialists need to understand industrial hygiene sampling equipment.
- Safety Engineers and Managers focused on employing the essentials of industrial hygiene.
- Risk Assessment and Compliance Officers ensuring legal compliance in industrial settings.
- Workplace Safety Inspectors and Facility Managers are involved in routine safety evaluations.
- Laboratory Technicians specializing in industrial hygiene sampling form and data interpretation.
- Health and Safety Consultants enhancing decision-making in hazard monitoring.
- Regulatory and Compliance Personnel committed to the importance of industrial hygiene standards.

Course Objectives:

By the conclusion of this Developing Industrial Hygiene Sampling Plan course, participants will:

- Gain a solid understanding of the fundamentals of industrial hygiene and exposure assessment.
- Identify various workplace hazards and ascertain appropriate industrial hygiene sampling methods.
- Develop and execute effective industrial hygiene sampling plans.
- Proficiently select, calibrate, and operate industrial hygiene sampling pumps for diverse contaminants.
- Implement regulatory standards in the industrial hygiene sampling guide.
- Analyze and interpret data to evaluate worker exposure effectively.
- Propose control measures based on sampling results and risk evaluation.
- Ensure adherence to occupational health and safety regulations.
- Enhance strategic decision-making in workplace hazard management.
- Improve documentation and reporting of industrial hygiene sampling activities.

Targeted Competencies:

At the end of this Developing Industrial Hygiene Sampling Plan training, the participant's competencies will:

- Mastery of industrial hygiene principles and practices.
- Skilled in workplace hazard identification and exposure assessment techniques.
- Knowledgeable in sampling techniques for air and surface contaminants.
- Adept at biological and chemical hazard evaluation.
- Competent in selecting, using, and calibrating industrial hygiene equipment.
- Proficient in interpreting data and generating comprehensive reports.
- Capable of executing risk assessments and proposing control measures.
- Development of thorough industrial hygiene sampling strategies.

Industrial Hygiene Solutions:

Ensuring a safe working environment involves applying effective industrial hygiene solutions. The Developing Industrial Hygiene Sampling Plan course includes developing comprehensive plans and employing appropriate sampling techniques to manage hazards effectively. Understanding key concepts such as the hierarchy of controls and regulatory compliance ensures sustained occupational health and safety.

Course Content:

Unit 1: Introduction to Industrial Hygiene and Exposure Assessment:

- Understand the role of industrial hygiene in ensuring workplace safety.
- Learn about the different types of occupational hazards: chemical, physical, biological, ergonomic, and psychosocial.
- Review the core principles of industrial hygiene: anticipation, recognition, evaluation, and control.
- Identify common workplace contaminants and their potential health impacts.
- Explore various exposure assessment strategies and techniques.
- Understand the importance of identifying exposure routes: inhalation, dermal, and ingestion.
- Discuss the hierarchy of controls in industrial hygiene.
- Review common regulatory standards and guidelines OSHA, ACGIH, NIOSH.

Unit 2: Hazard Identification and Risk Assessment:

- Learn how to conduct a thorough hazard identification process in the workplace.
- Understand the concept of risk assessment and how to evaluate the likelihood and severity of exposure.
- Explore qualitative and quantitative methods for assessing health risks.
- Understand the significance of identifying vulnerable populations in the workplace.
- Learn how to prioritize hazards based on exposure potential and health risk.
- Develop a strategy for monitoring and managing high-priority risks.
- Understand how to assess personal protective equipment PPE requirements.

Unit 3: Sampling Techniques and Equipment Selection:

- Explore various sampling methods: air, surface, biological, and noise monitoring.
- Learn how to select the right sampling method based on the hazard and exposure type.
- Understand the principles of grab sampling, integrated sampling, and passive sampling.
- Learn how to select and calibrate sampling equipment for accuracy.
- Review the function and application of air sampling pumps, passive badges, and personal monitors.
- Understand sample collection timeframes and factors that may influence sampling outcomes.
- Learn about sample preservation, storage, and transportation for analysis.
- Discuss calibration techniques and their importance for reliable data.

Unit 4: Data Interpretation, Analysis, and Reporting:

- Learn how to analyze and interpret industrial hygiene data.
- Understand key metrics such as Time-Weighted Average TWA, Short-Term Exposure Limit STEL, and Permissible Exposure Limits PEL.
- Understand the importance of comparing results with established regulatory limits.
- Develop skills to identify trends, anomalies, and patterns in the data.
- Learn how to document findings and generate detailed reports for stakeholders.
- Understand how to communicate results effectively to management, regulatory bodies, and employees.
- Learn how to make data-driven recommendations for improving workplace safety.
- Develop strategies for ongoing monitoring and reassessment of exposure risks.

Unit 5: Developing and Implementing an Industrial Hygiene Sampling Plan:

- Learn the essential steps in creating a comprehensive industrial hygiene sampling plan.
- Understand the importance of defining clear objectives and scope for the sampling program.
- Identify key elements of a sampling plan: target contaminants, sampling locations, and duration.
- Determine the necessary resources, tools, and personnel for successful sampling execution.
- Review the scheduling of sampling activities to ensure comprehensive exposure assessment.
- Learn how to incorporate regulatory requirements into the sampling plan.
- Develop procedures for handling unforeseen circumstances and troubleshooting during sampling.
- Understand how to evaluate the effectiveness of the sampling plan and make adjustments.
- Discuss the importance of regular reviews and updates to ensure the ongoing safety of the workplace.