

Safety Culture

1. SAFETY, OCCUPATIONAL HEALTH, AND ENVIRONMENTAL PROTECTION

OBJECTIVE:

Provide staff with the necessary knowledge of the aspects of Safety, Health, and Environmental Protection that will be useful in the development and continuous improvement of its activities in order to generate safe practices at work.

SCOPE

It is aimed for all staff working in the area of Safety, Environment, Health, Maintenance, Production, Purchasing, Human Resources, and the general public who wants to carry out duties in these areas.

DURATION

24 Hours.

CERTIFICATION

Certificate endorsed by SIPS.

CONTENT

Unit I	General Safety
Unit II	Personal Protective Equipment
Unit III	Standards and Guidelines
Unit IV	Risk Prevention
Unit V	Risk Communication and Dangerous Substances Management
Unit VI	Industrial Hygiene and Occupational Health
Unit VII	First Aid
Unit VIII	Fire Safety
Unit IX	Emergency Response
Unit X	Drills
Unit XI	Materials Handling
Unit XII	Critical Work Procedures
Unit XIV	Environment
Unit XV	Teamwork

Terminology, exercise, initial and final assessments.

Safety Culture

2. RIG PASS

OBJECTIVE

It will increase the level of awareness of accident prevention through understanding, knowledge, and practice of responsible attitudes within the drilling facilities.

SCOPE

It is aimed to all staff in general.

DURATION

16 Hours.

CERTIFICATION

Certificate endorsed by SIPS.

CONTENT

Unit I	General Safety
Unit II	Personal Protective Equipment
Unit III	Risk Communication and Hazardous Substances Management
Unit IV	Occupational Health
Unit V	Special Work Procedures
Unit VI	Fire Safety
Unit VII	Material Handling
Unit VIII	First Aid
Unit IX	Work Environment or Platform Team
Unit X	Emergency Response
Unit XI	Transportation
Unit XII	Water Safety

Terminology, exercises, initial and final assessments.

Engineering | Safety | Environment

Risk Prevention

3. SAFE USE OF HAND TOOLS

OBJECTIVE

To provide the participants the necessary knowledge of safety and health, as well as safety precautions and good work practices in the use, transport, and storage of the working hand tools, with the sole purpose of preventing occupational injuries during the performance work activity, in compliance with the Regulations and Federal Regulation on Safety, Health and Working Environment.

SCOPE

It is aimed at security and monitoring personnel, and whoever their activity requires the use of hand tools.

DURATION

8 Hours.

CERTIFICATION

Certificate endorsed by SIPS.

CONTENT

1. Introduction
2. Guidelines
3. Classification of work tools
4. Dangers and causes of common hand tools accidents
5. Dangers and causes of accidents portable tools, electrical or mechanical
6. Ordinary hand tools
7. Portable, electrical, and mechanical tools
8. Personal Protective Equipment
9. Conclusions

Terminology, exercises, initial and final assessments.

Safety Supervision

4. SAFETY SUPERVISORS TRAINING

OBJECTIVE

To provide staff knowledge and skills needed to perform the duties of the security monitoring in the workplace linking the man-work, legal framework and equipment. To be able to prevent and control major risks in the industry.

SCOPE

It is aimed at all personnel performing monitoring activities within the branches of industry in general.

DURATION

40 Hours

CERTIFICATION

Certificate endorsed by SIPS.

CONTENT

MODULE I

- Unit I** Introduction to risk management by effective systems of management security
- Unit II** Personal Protective Equipment
- Unit III** The causes, consequences and loss control
- Unit IV** Investigating incidents and/or accidents
- Unit V** Planned Inspections Systems
- Unit VI** Procedures and Observation of the Critical Tasks Analysis
- Unit VII** Measurement and Safety Monitoring

MODULE II

- Unit VIII** Occupational Safety & Health Administration
- Unit IX** Emergency Planning and Preparedness
- Unit X** Environmental Management System
- Unit XI** Behavior Change Management
- Unit XII** Legal Framework

Terminology, exercises, initial and final assessments.

Safety Supervision

5. COORDINATORS SAFETY TRAINING

OBJECTIVE

- Recognize and fulfill the responsibilities of his position that apply on Occupational Health, Safety, and Environment.
- Understand the inherent performance measures of his position.
- Apply the skills necessary to manage Health, Safety, and Environment issues.
- Practice inspection techniques and performance on the staff he is in charge of.
- To assess and control the activity risks.
- Apply techniques for incident investigation.
- Provide participants with the necessary skills to perform their duties in industrial safety and occupational safety areas.

SCOPE

It is aimed for supervisors and coordinating personnel of which in their activities are involved with the Safety, Health, and Environment processes.

Plant/Operational/Maintenance/Technical Managers. Human Resource and Total Loss Control Managers. Quality Assurance Managers.

Professional Members of Committees and Joint Committees of Industrial Safety and Hygiene companies.

DURATION

40 Hours.

CERTIFICATION

Certificate endorsed by SIPS.

CONTENT

- Module I** Safety and Health at Work

- Module II** Regulations applicable to safety work
- Module III** Safety at work

- Module IV** Occupational Health

- Module V** Occupational Medicine

- Module VI** Security Risk Analysis and Process Safety Management

- Module VII** Why can't we Manage Security?

- Module VIII** Health and Safety Joint Committees

- Module IX** Audits, Inspections, and Investigations

- Module X** Accident Prevention

- Module XI** Strategic Leadership and Prevention Management

Terminology, exercises, initial and final assessments.

Emergency Response

6. EMERGENCY BRIGADES FORMATION

OBJECTIVE

To provide the participants the basic knowledge about fire and the skills to respond in an emergency in order to safeguard the lives of the people and maintain the integrity of the facilities. They will also be able to apply the basic maneuvers of extinction using portable extinguishers, the initial management of water lines, having the knowledge to meet emergencies safely.

SCOPE

Aimed at staff who will be part (or is part of) the emergency brigade.

DURATION

8 Hours

CERTIFICATION

Certificate endorsed by SIPS.

CONTENT

- Module I** Fire Theory
- Module II** Fuel
- Module III** Oxygen
- Module IV** Types of fires
- Module V** Means of Propagation
- Module VI** Extinguishing Methods
- Module VII** Extinguishing Agents
- Module VIII** Fire Equipment

Terminology, exercises, evaluation, and assessments.

Emergency Response

7. HAZMAT I: THE FIRST ON THE SCENE

OBJECTIVE

Provide participants with the knowledge and skills necessary to recognize a hazardous material for your mark establish control of the site and protect your life and that of others.

SCOPE

It is aimed at all staff in general as well as groups of mutual aid response from the community.

DURATION

16 Hours.

CERTIFICATION

Certificate endorsed by the SIPS.

CONTENT

- Unit I** Basic Concepts
- Unit II** The hazardous materials incident
- Unit III** Hazardous Material Recognition and Identification
- Unit IV** Classification of Hazardous Materials (HAZMAT)
- Unit V** Legal Framework and Regulations
- Unit VI** MSDS Hazardous Materials
- Unit VII** Using Response Guidebook in case of emergency
- Unit VIII** Exposure types and pathways
- Unit IX** Handling and Initial Control of the Scene

Terminology, exercises, evaluation, and assessment.

High Risk Activities

8. RISK COMMUNICATION AND HAZARDOUS CHEMICALS MANAGEMENT

OBJECTIVE

Provide staff with the necessary knowledge regarding the health and safety conditions for the handling, transport, and storage of hazardous chemicals, in order to prevent injuries and protect the health of workers.

SCOPE

It is addressed to supervisors, security, operational and all personnel involved in the handling, transportation and storage of hazardous chemicals.

DURATION

24 Hours.

CERTIFICATION

Certificate endorsed by SIPS.

CONTENT

- Unit I** Introduction
- Unit II** Legal Framework and Regulations
- Unit III** Hazard Communication
- Unit IV** Classification of Hazardous Materials
- Unit V** MSDS (material safety)
- Unit VI** Incompatibility of hazardous materials
- Unit VII** Toxicology
- Unit VIII** Routes of entry of contaminants to agency
- Unit IX** Dose - Response
- Unit X** Exposure Limit
- Unit XI** Personal Protective Equipment
- Unit XII** Protection Levels A, B, C, D
- Unit XIII** Emergency Response of hazardous materials

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Terminology, exercises, evaluation and assessment.

Process Safety

9. COMPREHENSIVE RISK ANALYSIS DIPLOMA

OBJECTIVE

Know and apply the Process Hazard Analysis methodologies, to identify, assess, and control risks during the life cycle of facilities and processes, to achieve outstanding levels of safety for personnel, environment and facilities.

SCOPE

It is aimed at Pemex Exploration and Production professionals, Operations, Maintenance, Safety, and Administrative Staff.

DURATION

160 Hours.

CERTIFICATION

Certificate endorsed by SIPS.

MODULE I

Security Process Management:

- 1.1 Applicable regulations for the development of process hazards analysis.
- 1.2 Processes Hazards
- 1.3 Process Safety Information
- 1.4 Introduction to Risk Analysis Process

MODULE II

- 2.1 Assessment of high risk scenarios
- 2.2 Methodologies for Risk Analysis Process
- 2.3 Process Hazard Analysis
- 2.4 Practical Workshop

MODULE III

- 3.1 Security Lifecycle
- 3.2 Methods of risk analysis
- 3.3 Practical Workshop

MODULE IV

- 4.1 Specifying security requirements
- 4.2 Considerations for the design of the SIS / ESD
- 4.3 Topics covered by ISA 84

Organizational Effectiveness

10. LEADERSHIP AND MOTIVATION

OBJECTIVE

That the participant may apply the elements analyzed to become an effective leader, visionary and motivated, recognized within their organization.

SCOPE

It is aimed at all staff in general.

DURATION

16 Hours.

CERTIFICATION

Certificate endorsed by SIPS.

CONTENT

1. Introduction
2. General Purpose
3. What is Motivation?
4. Motivation and Behavior
5. Types of Motivation
6. Leadership
7. The role of leadership and motivation in the development

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