



COURSE OUTLINE BASIC HYDROGEN SULPHIDE

Module One: Introduction

Time Allocation: 15 Mins

Module terminal objectives: -

Upon completion of the module, the participants:

- Practice ESTC site emergency plan and procedures
- Demonstrate personal safety and occupational health awareness for the duration of the course
- Comply with ESTC rules of personal and professional behaviour
- List the course schedule, overview of modules and learning expectations

Module Enabling Objective(s):

Upon completion of the module, the participants:

- Demonstrate understanding of ESTC site emergency plan and procedures by successfully passing a short written test with a score of 100%.

Delivery Methods:

- Lecture Format

Topics:

1. Registration Data Sheet
2. ESTC Profile
3. Safety Briefing
4. Emergency Procedures



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Module Two: Safety Culture

Time Allocation: 15 Mins

Module Terminal Objectives:-

Upon completion of the module, the participant should be able to:-

- Understand the importance of safety culture in accident prevention (knowledge)
- Understand the importance of safety in the oil & gas industry (knowledge)
- Understand the importance of safety at the worksite (knowledge)
- HSE House Rules (knowledge)

Module Enabling Objective(s):

Upon completion of the module, the participant should be able to:-

- Understand the importance of safety culture in accident preventing at the workplace by successfully passing a short written assessment with a score of 100%.

Delivery Methods:

- Lecture Format

Topics:

1. Why safety culture is important in accident prevention?
2. Safety in oil and gas industry
3. Worksite safety

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Module Three: Introduction to Hydrogen Sulphide Gas

Time Allocation: 90 Mins

Module Terminal Objectives: -

Upon completion of the module, the participant should be able to:-

- Describe what is H₂S? (classroom activity)
- List the dangers, properties and effects of H₂S (knowledge)
- State where is hydrogen sulphide gas found (knowledge)
- Identify types of H₂S detection and monitoring devices (knowledge)
- Identify the control measure. (new)

Module Enabling Objective(s):

Upon completion of the module, the participant will:

- Know critical facts related to hydrogen sulphide gas include its characteristics, hazards properties, and the detection of H₂S by successfully passing a short written assessment with a score of 80%.

Delivery Methods:

- Lecture Format
- Classroom activity

Topics:

1. Introduction to hydrogen sulphide gas



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Module Four: Safe System of Working in H2S Location

Time Allocation: 100 Mins

Module Terminal Objectives: -

Upon completion of the module, the participant should be able to: -

- Discuss and explain why people die of H2S (knowledge)
- Present and discuss a video case study on 'Hydrogen Sulphide serious incident which occurred in the ADCO in Abu Dhabi' (knowledge)
- General procedures of working with H2S (knowledge)

Module Enabling Objective(s):

Upon completion of the module, the participant should be able to:-

- The module enables the participants to appreciate the fatal danger of H2S gas, poisoning and be familiar with the H2S standard safety procedure at worksite. The delegate is required to pass the modular assessment (knowledge) with a score mark of 80%

Delivery Methods:

- Case study format
- Discussion of H2S general safety procedure.

Topics:

2. Why people die of H2S?
3. Hydrogen Sulphide Gassing Incident in Refinery.
4. General Procedures of working with H2S
5. Video show



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Module Five: Protection from H₂S

Time Allocation: 60 Mins

Module Terminal Objectives: -

Upon completion of the module, the participant should be able to: -

- Identify the various types of respiratory protection (knowledge)
- Demonstrate the usage of respiratory protection correctly; Escape set and SCBA (competence)

Module Enabling Objective(s):

Upon completion of the module, the participant should be able to:-

- Know various types and usage of respiratory protection by successfully passing a short written test with a score of 80%.

Delivery Methods:

- Lecture and practical format

Topics:

1. Types and usage of respiratory protections

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Module Six: H2S Emergency Procedures

Time Allocation: 90 mins

Module Terminal Objectives: -

Upon completion of the module, the participant should be able to: -

- Demonstrate the emergency procedures correctly and safely during H2S emergency (knowledge/competence)

Module Enabling Objective(s):

Upon completion of the module, the participant should be able to:-

- Understand the emergency procedures by for H2S by successfully passing a short written assessment with a score of 80%.

Delivery Methods:

- Lecture format
- Scenario-base exercise

Topics:

1. H2S Emergency Procedures