

Process Safety Management Syllabus

Time: 4 hours

Maximum Class Size: 20

Prerequisites: None

Course Description:

This course is designed to empower the participant with the skills and knowledge to understand the Process Safety Management Standards regarding how to handle highly hazardous chemicals. These standards help prevent accidents and injuries. The standards mainly apply to manufacturing industries (involving chemicals, transportation equipment, fabricated metal products, pyrotechnics, and explosives). Other industries, such as those which handle gas and natural gas liquids, are also covered under this standard. This course enables the participant to recognize, identify and address hazardous conditions at their work site.

Goals/Objectives/Student Learning Outcomes:

- Define Process Safety Management and give examples of work sites to which it applies.
- Identify the minimum requirements of the PSM standard.
- Describe the seven issues that a Project Hazard Analysis must address.
- Describe the areas in which written tasks and procedures must be clearly communicated by the employer.
- Describe the process of safety equipment inspection and testing documentation.
- Describe at least five signs and or tags used to make employees aware of hazards on a PSM work site.
- Describe the conditions under which barricades, or flagmen are required at a work site.
- List five types of permits that are required at a PSM facility.
- List at least four provisions an emergency action plan should address.

Standards

OSHA 29 CFR

- 1926.64 Process Safety Management of highly hazardous materials
- 1910.106 Flammable liquids
- 1910.146 Permit Required Confined Spaces
- 1926.502 Fall protection systems criteria and practices
- 1926.651 Specific Evacuation Requirements
- 1926.65 Hazardous waste operations and emergency response

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- 1926.24 Fire protection and prevention
- 1926.352 (e) Fire prevention

DOT MUTCD

ANSI D6.1-1971

Classroom Rules and Procedures

- All classes begin at 6:30 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 6:30 am
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.
- Students are required to report to class ready to work and maintain the provided PPE

Textbooks/Readings/Materials

- *Process Safety Management PG/IG- LIUNA Training*
- *Safety Signs*

Personal Protective Equipment

- 20 pairs of gloves
- 20 pairs of Safety Glasses
- 20 pairs of Ear plugs
- 20 hard hats

Course Requirements

To receive credit for the course, participants must:

- Be present for full four hours
- Participate in all classroom exercises
- Pass a written exam
- Pass a hands-on exam

Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment

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- Participants who are on “light duty” are not allowed to take this course due to the physically demanding requirements.

Assessment and Grading

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.
- All hands-on exercises are graded on performance and participation. They are pass/fail and must be passed with a score of 80% or above.

Safety

Failure to maintain and use PPE may result in dismissal from the course.