

Basic Pipeline Orientation



Course Syllabus

Course Length: 8 hours	Prerequisites: None	Hands-on Training: None
Refresher Training Required: No Frequency: Recommended annually		References: <ul style="list-style-type: none"> ● SafeLandUSA ● 29 CFR 1910 ● 29 CFR 1926 ● 49 CFR 192 ● 49 CFR 195 Full list of references available in course material

Description

Veriforce’s Basic Pipeline Orientation is a one-day safety orientation that meets SafeLandUSA and the Gold Shovel Standard certification. Basic Pipeline Orientation provides general safety information that workers need to know before entering a company worksite and while performing their assigned work duties. Students will learn about hazards they may encounter in the pipeline industry and become familiar with various practices to mitigate those hazards. Students will also gain understanding of their rights under OSHA and how those rights apply to their workplace.

Certifications

Upon successful completion of the course, students receive their Veriforce ID card. This card reflects Veriforce course requirements the student has met. Employers may verify student training on the ID card or online at www.PECCard.com.

Course Evaluation

Students will receive exams to verify competency in Basic Pipeline Orientation topics.

Course Components & Objectives

1. **Safety Culture**
 - 1.1 **Discuss how human performance, behavior-based safety, and the IOGP life-saving rules can impact safety and culture.**
 - 1.2 **Explain how the IOGP life-saving rules can be incorporated into everyday tasks.**
2. **General Safety**
 - 2.1 **Describe general and safety company requirements.**
 - 2.2 **Explain how communication plays a role in keeping workers safe.**
3. **Hazard Control**
 - 3.1 **Describe engineering and administrative control measures that can limit worker exposure.**
 - 3.2 **Describe worker and company responsibilities regarding personal protective equipment (PPE).**
 - 3.3 **Identify common types of PPE.**
 - 3.4 **Explain the valid reasons for bypassing safety controls and the proper protocol for doing so.**
4. **The Hazard Communication Standard**
 - 4.1 **Explain the purpose of the Hazard Communication Standard.**
 - 4.2 **Describe the purpose of product warning labels.**
 - 4.3 **Describe how pictograms, signal words, and hazard statements are used to communicate hazards.**
 - 4.4 **Demonstrate how to use a safety data sheet.**
5. **Environmental**
 - 5.1 **Identify the different types of waste.**
 - 5.2 **Describe ways to minimize waste at the jobsite.**
 - 5.3 **Explain the purpose of the Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard.**
6. **Industrial Hygiene**
 - 6.1 **Identify the major routes of exposure in which hazards may enter the body.**
 - 6.2 **Describe common chemical hazards and the measures for controlling exposure.**
 - 6.3 **Describe biological hazards, how they are transmitted, and the methods to control exposure.**

- 6.4 Identify common physical hazards and the control measures for preventing worker exposure.
7. Working Around Heavy Equipment
 - 7.1 Explain the role of the spotter.
 - 7.2 Describe best practices for working around heavy equipment.
 - 7.3 Describe the general requirements for operating a utility terrain vehicle.
8. Ground Disturbance
 - 8.1 Explain the notification requirements for ground disturbance activities.
 - 8.2 Describe the general requirements for utility markings.
 - 8.3 Explain the purpose of a tolerance zone.
 - 8.4 Describe the precautions to take when digging within a tolerance zone.
9. Excavation and Trenching
 - 9.1 Explain training requirements for working in excavations.
 - 9.2 Identify the hazards and control measures for excavation and trenching.
 - 9.3 Describe safety measures for other excavation methods.
10. Safe Mechanical Lifting
 - 10.1 Describe general requirements and safe work practices for forklifts.
 - 10.2 Explain the responsibilities of crane operators, signal workers, and riggers.
 - 10.3 Describe the safety measures for working within exclusion zones.
 - 10.4 Describe the safe work practices for mechanical lifting.
11. Line of Fire
 - 11.1 Identify line of fire hazards.
 - 11.2 Explain how the IOGP Line of Fire Life-Saving Rule can help keep workers safe.
12. Pipeline Construction Overview
 - 12.1 Describe the hazards and control measures for the following pipeline construction operations:
 - Clearing the right-of-way
 - Loading and unloading
 - Stockpiling
 - Stringing
 - Bending operations
 - Welding operations

- **Non-destructive testing**
- **Coating application**
- **Lowering in**
- **Backfilling**
- **Pressure testing**
- **Simultaneous operations**

13. Operator Qualification

- 13.1 Explain the purpose of the Operator Qualification Rule.**
- 13.2 Explain the difference between operator qualification and training.**
- 13.3 Describe the requirements associated with abnormal operating conditions.**

14. Emergency Action Plans

- 14.1 Explain the purpose of an emergency action plan.**
- 14.2 Recognize how to respond to a medical emergency.**
- 14.3 Describe general procedures for evacuations.**

15. Working Alone

- 15.1 Define working alone.**
- 15.2 Describe the hazards of working alone and the control measures for reducing exposure.**

16. Motor Vehicle Safety

- 16.1 Describe the general safe work practices for:**
 - **Vehicle inspections**
 - **Cargo securement**
 - **Road conditions**
 - **Parking and backing**
- 16.2 Explain the purpose of journey management.**
- 16.3 Explain how the IOGP Driving Life-Saving Rule can help keep workers safe.**

17. Walking Working Surfaces

- 17.1 Explain the importance of housekeeping in preventing hazards.**
- 17.2 Describe safe work practices for walking working surfaces.**

18. Specialized Tasks

- 18.1 Describe the hazards and control measures for the following operations:**
 - **Working at heights**
 - **Energy isolation**
 - **Electrical**
 - **Hot work**

- **Confined space**

19. Pipeline-Specific Activities

19.1 Describe the hazards and control measures for the following operations:

- **Purging**
- **Line breaks**
- **Hot tapping**
- **Launching and receiving (pigging)**