

## POWERSAFE GENERATION™ ORIENTATION

### EXECUTIVE COURSE SUMMARY

THE POWERSAFE GENERATION course is a two-hour program that provides a broad, general safety orientation for the utility workforce in power-generating facilities. The program was developed through a collaborative effort between various industry representatives to ensure that a standard level of safety awareness is reached.

PowerSafe Generation was designed to help build a solid foundation in safety by addressing general safety needs for the utility workforce in power-generating facilities. Upon successful completion of the course, students will receive a PowerSafe badge that lists the training and expiration date. Training may be verified by owners and contractors through the PowerSafe secure online database, accessed at [www.powersafetraining.org](http://www.powersafetraining.org).

### IN THIS COURSE:

The student will receive instruction in each of the areas specified. The outcome objectives are listed for each topic.

PowerSafe Generation orientation does NOT replace contractors' and owners' specific training programs and does not authorize employees to do work. The employer must provide the employee with proper training for the specific job. Visit [www.powersafetraining.org](http://www.powersafetraining.org) to learn more.

### AWARENESS LEVEL TOPICS

#### General Safety Rules

- + Know what to expect upon entering a jobsite.
- + Know the rules for safely moving around on a jobsite.
- + Know general information on how to safely perform the job.
- + Know what to do in an emergency situation.

#### Housekeeping

- + Describe the ways to and reasons for keeping the work area in good order.
- + Know what to do in the event of a chemical spill.
- + Identify ways to prevent fires through the application of proper housekeeping techniques.

#### Vehicle Safety

- + Identify the responsibilities of vehicle operators.
- + Know the rules for safely operating a vehicle or equipment within a facility.

#### Personal Protective Equipment (PPE)

- + Identify the various types of personal protective equipment, including head protection, eye and face protection, hearing protection, hand and foot protection, respiratory protection, fall protection, and protective clothing.
- + Determine the appropriate need for and use of PPE.

#### Hearing Conservation

- + Understand the provisions of OSHA's Occupational Noise Exposure Standard, CFR 29 1910.95.
- + Know the precautions needed to protect hearing.
- + Identify the two categories of hearing protection equipment and their associated advantages and disadvantages.

#### Hazard Communication

- + Know how to find information about the chemicals that are being worked with.
- + Explain the purpose and key provisions of the OSHA Hazard Communication Standard.
- + Identify standard, physical, and health hazards associated with chemicals and their possible routes of exposure.
- + Know the measures employees can take to protect themselves from chemical hazards.
- + Know the contents, meaning, and use of material safety data sheets (MSDS).
- + Identify labeling and other forms of warning requirements, including the NFPA diamond and the HMIS.
- + Identify the hazards of working with asbestos and the related precautions to take.
- + Identify the hazards of working with lead and the related precautions to take.

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### AWARENESS LEVEL TOPICS

(CONTINUED)

#### Hazard Communication [continued]

- + Identify the hazards of working with inorganic arsenic and the related precautions to take.
- + Identify the hazards of working with PRB coal and the related precautions to take.
- + Identify the hazards of working with hexavalent chromium and the related precautions to take.
- + Identify the hazards of working with vanadium and the related precautions to take.

#### Bloodborne Pathogens

- + Identify and define bloodborne pathogens.
- + Explain the hazards of bloodborne pathogens.
- + Know what is needed to protect against bloodborne pathogens through the application of universal precautions.
- + Explain the responsibilities of both the employee and employer with regard to the handling of bloodborne pathogens.

#### Heat Stress

- + Identify the various types and symptoms of heat stress.
- + Know preventive measures to take in order to avoid becoming a victim of heat stress.
- + Know how to provide emergency assistance to victims of heat stress.

#### JSA/JHA

- + Know the purpose and benefits of a job safety analysis/job hazard analysis (JSA/JHA).
- + Identify the steps involved in conducting a JSA/JHA.
- + Identify the various hazards to consider when conducting a JSA/JHA.

#### Basic Electrical Work Practices

- + Describe the difference between qualified and non-qualified workers.
- + Describe the hazards involved in working on or near exposed energized electrical equipment.
- + Identify the safety precautions that must be taken in order to protect oneself from electrical hazards.
- + List basic safety rules of working with and/or around electricity.

#### Hand and Power Tools

- + Identify the potential hazards of working with various hand and power tools.
- + Know the safety precautions necessary to prevent and control those hazards.
- + Identify safe work practices for working with/around rotating equipment.
- + Know how to properly inspect hand and power tools in order to prevent a hazardous situation.

#### Elevated Work

- + Know the general protection rules for working around walking and working surfaces.
- + Identify typical working surface hazards.
- + Understand safe rules for working with/around scaffolding.
- + Know the rules for safely using portable ladders.
- + Know when fall protection is required and how to properly use fall protection.

#### Confined Space

- + Know how to identify a confined space.
- + Know the hazards and limitations of working within a confined space.