

### HSAC EXPOSURE LEVEL COURSE OUTLINE:

The safety status of hydraulic equipment and components are always changing. What is safe today may not be safe tomorrow. Hydraulics has been the root cause of injury, equipment loss and environmental damage in all industry sectors. Most occupations are exposed to hydraulic systems. This Exposure Level course is recognized internationally for establishing an awareness of hydraulic hazards in the workplace. Special attention is given to root causes, and misconceptions.

This program brings awareness to individuals who are exposed to hydraulic systems, and may not know it. Many hydraulic incidents and fatalities are a result of people working with hydraulic systems without understanding the related hazards. This one day exposure level course consists of topics that will provide each participant substantial knowledge on the hazards encountered with hydraulic energy. This level of training provides important information on how safety and reliability of hydraulic systems directly affect safety of personnel and environment.

The goal is to provide you with important knowledge which will assist in reducing risk and eliminating hazards for colleagues, equipment, environment, and the company.

This instructor led course format contains over 700 visually related slides including numerous videos and animations.

Everyone needs to be aware of the dangers associated with Hydraulic equipment.

### HSAC EXPOSURE LEVEL COURSE TOPICS:

- What are Hydraulic Fluids?
- Guarding
- Exposure to Hydraulic Fluid and PCBs
- System Safety Considerations
- Hydraulic Hazards & Risk Reduction
- Devices for Protection
- Personal Protective Equipment
- Dangers of Pressurized Grease
- Safety Standards and Qualifications
- Gravity is Your Enemy
- Your Role in Your Facility
- Overhanging and Runaway Hazards
- Types of Hoses and Construction
- Effects of Modifications to Hydraulic Components
- Hydraulic Hoses Applications
- Hazards of Welding Hydraulic Components & Hot Work
- Hydraulic Hoses Assembly Fabrications
- Hazard Assessment to Include
- Specifications and Standards
- General Responsibilities
- Life Cycle Affects
- Before Work Begins
- How Accumulators Work and Their Applications
- Hydraulic Inspections
- Forms of Hazardous Energy
- What is Lockout?
- Commonly Used Thread Connections in Hydraulic Systems
- Zero Energy State
- Pressure Ratings
- Hydraulic Fluids and the Environment
- Seals and Safety
- Spill Preparedness
- Maintenance, Planning & Reliability
- Acceptable Disposal Practices

**HSAC EXPOSURE LEVEL COURSE DURATION:** Online E-Learning 240 minutes individual self-paced, or 1 Day Instructor delivered.

**HSAC EXPOSURE LEVEL ASSESSMENT:** Exposure Level Testing is conducted, 41 test questions are designed primarily as a knowledge summarization of the program chapters and must be completed by each participant. HSAC testing has no pass/fail stipulation to receive a Certificate of Completion.

**HSAC EXPOSURE LEVEL CERTIFICATE OF COMPLETION:**

Participants will receive their certificates and hard hat sticker by mail within 21 business days from the authorized training provider after HSAC has received the completion notification.

**HSAC CERTIFICATE VALIDATION DATE:**

Continuing education courses will be necessary to remain current with the latest safety bulletins, compliance changes in the industry, and the latest technology and resources available. Evolution brings constant change in both hazards and hazard mitigation. Certificates are valid for 3 years and are indicated on each. Refresher courses are available for renewal.

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