



HS334: Gas Handling *(Compressed Air & Gas Testing)*

Training Description:

This practical safety training program is designed for employees at our dry dock company who work with various gases, including compressed air, CO₂, O₂, LPG, argon, nitrogen, acetylene, and others. The purpose of the training is to equip you with the knowledge and skills necessary to handle these gases safely and effectively. Throughout the program, we will explore the unique properties of each gas, discuss the potential hazards associated with their use, and provide you with step-by-step instructions for safe handling procedures.

By the end of this intensive training course, you will be confident in your ability to work with these gases while minimizing risks to yourself and others.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Define and classify different gas types (e.g., flammable, toxic, inert) based on their properties and characteristics
- ✓ Identify common industrial applications of various gases
- ✓ Explain the potential hazards associated with each type of gas
- ✓ Describe the health risks of gas exposure and identify relevant exposure limits
- ✓ Discuss the environmental impact of gas handling practices
- ✓ Identify key regulations and standards governing gas handling (e.g., OSHA, EPA, local regulations)
- ✓ Explain compliance requirements and best practices for safe gas handling
- ✓ Demonstrate proper storage methods for different gas types
- ✓ Describe safe transportation techniques for gas containers
- ✓ Apply correct procedures for using gas equipment
- ✓ Explain emergency response protocols in case of a gas leak or incident
- ✓ Identify the types of PPE required for various gas handling tasks
- ✓ Demonstrate the proper use and maintenance procedures for PPE
- ✓ Perform fit testing and safety checks on PPE to ensure proper functionality
- ✓ Recognize signs of a gas leak and outline the appropriate response procedures
- ✓ Explain safe evacuation procedures in case of a gas incident
- ✓ Describe first aid and medical response protocols for gas exposure victims

Training Designed for:

This course is intended for anyone who works with or around gases. Here's a breakdown of who would benefit most:

- **Industrial Workers:** People who handle gases directly in their daily tasks, such as those in chemical plants, oil and gas refineries, welding shops, and laboratories.
- **Maintenance Personnel:** Individuals responsible for maintaining equipment that uses gases, like HVAC technicians, plumbers, and refrigeration technicians.
- **Emergency Responders:** Firefighters, hazmat teams, and emergency medical technicians who might encounter gas leaks or accidents.
- **Facility Managers:** Those responsible for the overall safety of a workplace where gases are used or stored.

- **Anyone who transports gases:** This includes truck drivers, delivery personnel, and shipping/receiving staff.

In short, this course is valuable for anyone who needs to understand the safe handling of gases to protect themselves, others, and the environment.

Training Program:

FIVE DAYS:

- ❖ **Introduction to Gas Handling**
 - Types of gases (e.g., flammable, toxic, inert)
 - Basic properties and characteristics
 - Common uses in industry
- ❖ **Hazards and Risks**
 - Potential hazards associated with each type of gas
 - Health risks and exposure limits
 - Environmental impacts
- ❖ **Regulatory Requirements**
 - Relevant regulations and standards (e.g., OSHA, EPA, local regulations)
 - Compliance requirements and best practices
- ❖ **Safe Handling Procedures**
 - Proper storage methods
 - Safe transportation techniques
 - Correct usage procedures
 - Emergency response protocols
- ❖ **Personal Protective Equipment (PPE)**
 - Types of PPE required for gas handling
 - Proper use and maintenance of PPE
 - Fit testing and safety checks
- ❖ **Emergency Procedures**
 - Identifying and responding to gas leaks
 - Evacuation procedures
 - First aid and medical response for gas exposure
- ❖ **Course Conclusion**
- ❖ **POST-ASSESSMENT and EVALUATION**

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

This training course is available upon request in English or Arabic, virtual online live or face to face public/inhouse. Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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