Training Course:
LDAR – Leak Detection and Repair

10 - 14 August 2025
Dubai (UAE)
Residence Inn by Marriott Sheikh Zayed Road, Dubai

Training Course:
LDAR ⬚ Leak Detection and Repair

Training Course code: EN236064 From: 10 - 14 August 2025 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 5300 ⬚ Euro

Introduction

Leak Detection and Repair LDAR programs are essential for industrial operations aiming to minimize fugitive emissions of volatile organic compounds VOCs and other hazardous gases. LDAR is a systematic approach that involves detecting, monitoring, and repairing leaks to ensure safety, regulatory compliance, and environmental protection.

This training program, developed by Global Horizon Training Center, provides participants with the knowledge and skills required to implement effective LDAR programs. The course covers technical aspects of leak detection technologies, regulatory frameworks, repair techniques, and best management practices. Through interactive lectures, practical sessions, and case studies, attendees will be equipped to design, execute, and maintain LDAR programs that reduce emissions and improve operational efficiency.

Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals of fugitive emissions and their environmental and health impacts.

- Identify sources of leaks in industrial settings and select appropriate detection technologies.

- Develop and implement comprehensive LDAR programs in compliance with industry standards and regulations.

- Perform accurate leak detection using various technologies, including OGI, sniffer instruments, and other methods.

- Execute effective repair procedures and maintain leak records.

- Analyze LDAR data to improve environmental performance and operational reliability.

- Communicate LDAR findings and generate compliance reports.

Course Methodology

- Instructor-Led Training: Detailed lectures supported by multimedia presentations.

- Hands-On Practice: Field exercises using detection tools and repair techniques.

- Group Discussions: Collaborative problem-solving and experience sharing.

- Case Studies: Review of successful LDAR implementations and challenges.

- Assessments: Quizzes and practical evaluations to measure understanding.

- Role-Playing: Simulated leak detection and repair scenarios.

Organizational Impact

Implementing a robust LDAR program within an organization results in:

- Significant reduction of VOC and hazardous gas emissions.

- Compliance with environmental regulations and avoidance of fines.

- Enhanced workplace safety and reduced risk of fire or explosion.

- Improved operational efficiency and decreased product loss.

- Positive corporate image through environmental responsibility.

- Data-driven decision-making for maintenance and operational planning.

Target Audience

- Environmental Health and Safety EHS Professionals

- Maintenance and Operations Personnel

- Regulatory Compliance Officers

- Chemical, Petrochemical, and Oil & Gas Industry Staff

- Facility and Plant Managers

- Environmental Consultants and Auditors

- Quality Control and Assurance Teams

Outlines

Day 1: Fundamentals of Leak Detection and Repair

- Introduction to Fugitive Emissions and Environmental Impact

- Regulatory Frameworks and Industry Standards EPA, OSHA, etc.

- Overview of LDAR Programs and Objectives

- Common Leak Sources in Industrial Facilities

- Roles and Responsibilities in LDAR Programs

Day 2: Leak Detection Technologies and Tools

- Optical Gas Imaging OGI Cameras: Principles and Applications

- Handheld Detectors and Sniffers

- Gas Analyzers and Other Detection Instruments

- Calibration and Maintenance of Detection Equipment

Day 3: Leak Repair Techniques and Maintenance

- Leak Classification and Prioritization

- Repair Materials and Methods Sealing, Replacement, etc.

- Developing Repair Schedules and Follow-Up Procedures

- Documentation and Record-Keeping Best Practices

Day 4: LDAR Program Management and Compliance

- Designing and Implementing LDAR Programs

- Data Collection, Analysis, and Reporting

- Risk Assessment and Continuous Improvement

- Training and Awareness for Personnel

- Case Study: Successful LDAR Implementation

Day 5: Practical Assessments and Advanced Topics

- Hands-On Leak Detection and Repair Simulations

- Troubleshooting Common LDAR Challenges

- Emerging Technologies and Innovations in LDAR

- Final Assessment and Certification

Registration form on the Training Course:
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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Full Name (Mr / Ms / Dr / Eng): ....
Position: ....
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Address: ....
City / Country: ....

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): ....
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Payment Method

☐ Please find enclosed a cheque made payable to Global Horizon

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Telephone: +201095004484 to provisionally reserve your place.	Fax your completed registration form to: +20233379764	E-mail to us : info@gh4t.com or training@gh4t.com	Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.