



*Training Course:  
OGI – Optical Gas Imaging*

*29 June - 3 July 2025*

*Dubai (UAE)*

*Residence Inn by Marriott Sheikh Zayed Road, Dubai*

## Training Course: OGI □ Optical Gas Imaging

Training Course code: EN236063 From: 29 June - 3 July 2025 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 5300 □ Euro

### Introduction

Optical Gas Imaging OGI is a cutting-edge technology that enables the visualization of gas leaks and emissions which are invisible to the naked eye. It plays a critical role in environmental safety, industrial maintenance, and regulatory compliance by detecting volatile organic compounds VOCs, methane, and other gases in real-time. This specialized training program is designed by Global Horizon Training Center to provide participants with both theoretical knowledge and practical skills to effectively use OGI cameras for leak detection and monitoring.

### Objectives

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

- Understand the scientific principles and operational mechanics of Optical Gas Imaging technology.
- Identify different gases and their signatures using OGI cameras.
- Effectively operate and maintain OGI equipment for accurate gas leak detection.
- Analyze and interpret thermal images to locate and quantify gas leaks.
- Apply industry standards and safety protocols in gas detection procedures.
- Integrate OGI techniques into environmental monitoring and regulatory compliance strategies.
- Develop actionable reports based on OGI data for organizational decision-making.

### Course Methodology

- Lectures & Presentations: Comprehensive theoretical sessions explaining OGI fundamentals.
- Hands-On Training: Practical use of OGI cameras and simulation of gas leak detection scenarios.
- Case Studies: Real-world examples from oil & gas, chemical, and environmental sectors.
- Group Discussions & Q&A: Interactive sessions to clarify doubts and share best practices.
- Assessments: Practical and written tests to evaluate learning outcomes.
- Demonstrations: Live demonstrations of gas leak detection using OGI equipment.

### Organizational Impact

Implementing OGI technology within an organization enhances safety by early detection of hazardous gas leaks, reduces environmental impact through timely intervention, and ensures compliance with environmental regulations. Organizations will benefit from:

- Improved operational efficiency and reduced downtime.
- Enhanced risk management and worker safety.
- Cost savings by minimizing product loss and avoiding regulatory fines.
- Strengthened corporate social responsibility through environmental stewardship.
- Empowered teams capable of using advanced diagnostic tools.

## Target Audience

- Environmental and Safety Officers
- Maintenance Engineers and Technicians
- Oil & Gas Industry Professionals
- Chemical Industry Personnel
- Regulatory Compliance Managers
- Facility Managers
- Industrial Hygienists
- Consultants in Environmental Monitoring and Safety

## Outlines

### Day 1: Introduction to Optical Gas Imaging Technology

- Overview of Gas Leak Detection Technologies
- Principles of Optical Gas Imaging
- Types of Gases Detectable by OGI
- OGI Camera Components and Specifications
- Safety and Compliance Standards

### Day 2: Operating OGI Equipment

- Hands-On Introduction to OGI Cameras
- Camera Settings and Calibration
- Image Acquisition and Real-Time Monitoring
- Common Operational Challenges and Solutions
- Practical Session: Capturing Gas Leak Images

#### Day 3: Interpretation and Analysis of OGI Data

- Fundamentals of Thermal and Spectral Imaging
- Differentiating Gas Leaks from Background Noise
- Quantifying Leak Size and Concentration
- Use of Software Tools for Image Analysis

#### Day 4: Integration with Industrial and Environmental Practices

- Leak Detection and Repair LDAR Programs
- OGI in Environmental Compliance and Reporting
- Risk Assessment and Management Using OGI Data
- Creating Effective Gas Leak Reports
- Group Workshop: Designing a Leak Detection Plan

#### Day 5: Advanced Applications and Practical Assessments

- Advanced Imaging Techniques and Emerging Technologies
- Troubleshooting and Maintenance of OGI Equipment
- Practical Assessment: Field Simulation of Leak Detection
- Final Q&A and Discussion

## Registration form on the Training Course: OGI □ Optical Gas Imaging

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Company Information

Company Name: .....  
Address: .....  
City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
- ☐ Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
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Complete & return the  
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