



# GWIJIAFRICA

## Health and Safety Training NEBOSH International Technical Certificate in Oil and Gas Operational Safety

YOUR COURSE GURU



**Patrick Casken (UK)**  
Armada OSH  
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### KEY TOPICS

- Health, safety and environmental management in context
- Hydrocarbon process safety 1
- Hydrocarbon process safety 2
- Fire protection and emergency response
- Logistics and transport operations



## Why NEBOSH IOGC?

The importance of effective health and safety training in the oil and gas industry is highlighted by extensively reported examples of major process safety incidents including the 2010 Deepwater Horizon oil rig explosion in the Gulf of Mexico, the Buncefield oil storage depot explosion (2005), the 1988 Piper Alpha oil platform explosion (both occurring in the UK) and the Gas Plant explosion at Longford, Australia in 1998. The NEBOSH International Technical Certificate in Oil and Gas Operational Safety is designed specifically for industry specialists with day-to-day safety responsibilities. It focuses on operational process safety and is intended to enable candidates to apply and implement effective process safety management across all areas of their operation and throughout the world.

## Who is the course designed for?

The NEBOSH International Technical Certificate in Oil and Gas Operational Safety is suitable for supervisors, managers, safety representatives and newly qualified health and safety advisors within the oil and gas industries, both within and outside the UK and is designed to provide a sound breadth of underpinning knowledge that enables them to manage oil and gas operational risks effectively.

## How it is conducted?

Training Outline Delivery of the NEBOSH International Technical Certificate in Oil and Gas Operational Safety Course will be live virtual via Zoom using PowerPoint, exercises and group discussion. The language is English Duration: 5 ½ days: Consisting of 5 days of tuition followed by ½ day for examination. Timing typically 09.00 to 16.30.

## Assessment

The course is assessed by a 2 hour-written examination. The written examination consists of ten 'short-answer' questions (8 marks each) and one 'long-answer' question (20 marks); all questions are compulsory. The examination paper covers the whole unit syllabus with at least one question per element and all questions are compulsory. NEBOSH uses external assessment for written examinations and this will be held at a physical location in- country. The pass standard for the unit/qualification is 45%

## Certification

Once a candidate has achieved a Pass they are normally considered to have completed the qualification and a qualification parchment will be issued by NEBOSH , usually within 40 working days of the confirmed date of the passed unit.

## Meet the course guru



**Patrick Casken (UK)**  
Armada OSH  
Health & Safety consultant

Pat is a former HSE Inspector with considerable experience in a wide variety of industries including manufacturing, mining, engineering, medical research, construction, food, retail, offices and maritime. Pat has successfully provided the NEBOSH training for a number of years, regularly achieving pass rates in excess of 75%.

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# Training Methodology and Course Structure:

The syllabus takes a risk approach based on best practice and international industry standard and management systems, enabling delegates to effectively discharge workplace safety responsibilities both onshore and offshore. The NEBOSH International Technical Certificate in Oil and Gas Operational Safety (Unit IOGC1) is divided into 5 Elements:

## Element 1:

### Health, safety and environmental management in context

- ➔ Learning from incidents
- ➔ Hazards inherent in oil and gas
- ➔ Risk management techniques used in the oil and gas industries
- ➔ Safety Case documentation

## Element 3:

### Hydrocarbon process safety 2

- ➔ Failure modes
- ➔ Safety critical equipment controls
- ➔ Safe containment of hydrocarbons
- ➔ Fire hazards, risks and controls
- ➔ Furnace and boiler operations

## Element 5:

### Logistics and transport operations

- ➔ Marine transport
- ➔ Land transport

## Element 2:

### Hydrocarbon process safety 1

- ➔ Contractor management
- ➔ Process Safety Management
- ➔ Permit-to-work system
- ➔ Safe shift handover
- ➔ Plant operations and maintenance
- ➔ Start up and shut down

## Element 4:

### Fire protection and emergency response

- ➔ Fire and explosion in the oil and gas industries
- ➔ Emergency response

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