

“ Practical rigs were good exercises,  
which were set up and executed well ”



# CompEx Ex11 Mechanical

**3 day course**

The CompEx Ex11 Mechanical qualification has been developed for mechanical operatives working in hazardous locations where gases, vapours or dusts can form explosive atmospheres.

# COMPEX EX11 MECHANICAL

## OVERVIEW

This course is to determine the core competency of mechanical personnel. It is the CompEx certification for mechanical operatives where gas, vapours and dust can create explosive atmospheres. The aim is to provide mechanical personnel with the knowledge of potentially hazardous explosive atmospheres. Candidates who are successful in both the theory and practical assessments will receive a CompEx Certificate in Core Competence.

EX 11 meets with the competency requirements for EN 13463 Parts 1, 5 & 6 for operatives working with mechanical equipment.

Candidates wishing to undertake this course should have a mechanical background and will need to have a signed letter of competency from their employer.

## COURSE CONTENT

- The Directives and Legislation
- Area Classification
- Equipment for use in Hazardous Areas
- Gas Groups
- Temperature Classification
- Basic Principles of Flammable Compounds
- Protection Methods of non-electrical Equipment
- Inspection and Maintenance of Bearings
- Lubrication
- Seals
- Couplings
- Belt Drives
- Upper and Lower Flammability Levels
- Light Metals
- Inspection types and Grades
- Mechanical Containment
- Recommendations on Thread Engagement
- Cavitation
- Vibration
- Fluid Groups
- Flash Points and Ignition Temperatures

## WHO SHOULD ATTEND?

This qualification is suitable for practicing mechanical operatives who are involved in installing, inspecting and maintaining non-electrical (mechanical) equipment in locations where gases, vapours and/or dusts can potentially create a hazardous area.

## ASSESSMENT

Assessment is undertaken using both practical assessments and an online examination that covers the CompEx units Ex F and Ex11.

- Online exam – Candidates must undertake a multiple-choice online examination that consists of 60 questions answered over 1.5 hours.
- Practical Assessments – Candidates are required to undertake two practical assessments:
  - Flange Integrity Installation and leak test – 60 minutes
  - Pumpset inspections (visual and detailed) – 60 minutes

## DURATION 3 days