



# CompEx Dust Ex05-06

**4 day course**

The CompEx Dust qualification has been designed for practicing electrical or instrumentation technicians who work in hazardous locations where combustible dust, fibres or flyings can form an explosive atmosphere.

# COMPEX EX05-06 - DUST

## OVERVIEW

Units EX05 and EX06 are the recognised qualification for competence in the installation and maintenance of electrical apparatus in the presence of combustible dusts. It is the qualification for competency in working with dusts in hazardous environments.

Please note, it is strongly recommended that delegates are able to make off steel wire armoured cable glands when attending this course and should be appropriately qualified electrotechnical crafts persons. There is no refresher course for this unit but candidates are required to retake this course every five years if they wish to remain current.

## COURSE CONTENT

1. CompEx EX05 – installation of apparatus for use in the presence of combustible dusts
2. CompEx EX06 – maintenance of apparatus for use in the presence of combustible dusts
3. Assessment is by written and practical test

Candidates will learn what considerations must be given to areas that contain potentially explosive or flammable atmospheres and the factors used to classify their location.

The course includes instruction on how to read hazardous area certification, labelling and documentation relating to dust factors that need to be considered when managing dust clouds and layers. It also covers the main protection concepts, categories and levels that are applied to certified Ex electrical equipment.

Successful candidates will demonstrate the required knowledge and skills as laid out in the IEC 60079 series of standards and the relevant national standards and directives. The Dust qualification identifies with several IEC 60079 Explosive Atmosphere Standards and is mainly focused on the minimum specifications laid out in IEC60079:0, IEC60079:10.2, IEC60079:14 and IEC60079:17.

This qualification can be used to supplement the CompEx Ex01–Ex04 Gas and Vapour qualification or undertaken as a stand-alone course. Ex05 and Ex06 can also be completed in combination with other CompEx qualifications as part of a continuing professional development plan. Candidates who are successful in both the theory and practical assessments will receive a CompEx Certificate in Core Competence.

## WHO SHOULD ATTEND?

This qualification is suitable for electrotechnical personnel who work on the physical installation and assembly of new 'Ex' equipment and perform preventive maintenance and inspections on previously installed equipment in hazardous dust atmospheres.

## ASSESSMENT

Assessment is undertaken using both practical assessments and an online examination that covers the two separate CompEx units:

- **Online exam** – Candidates must undertake a multiple-choice online examination that consists of 60 questions answered over 90 mins.
- **Practical assessments** – Candidates are required to undertake four practical assessments
  1. Ex05a assessment non-IS installation – 120 mins
  2. Ex05b assessment IS installation – 105 minutes
  3. Ex06a assessment – Inspection and maintenance of non-IS electrical equipment – 85 mins
  4. Ex06b assessment – Inspection and maintenance of IS equipment – 65 minutes

## DURATION 4 days