CompEx Ex12 Application Design Engineer

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COMPEX EX12
APPLICATION DESIGN ENGINEER

OVERVIEW

The CompEx Ex12 Application Design Engineer qualification has been developed to ensure the core competence of application design engineers who specify electrical equipment in hazardous areas.
This qualification has been developed in consultation with the UK Regulator and industry to ensure that the core competence of application design engineers can be measured & provides a benchmark for employers to meet the competence requirements of the IEC 60079 Series of Standards.
Based upon the IEC standard 60079-14: Electrical installations design, selection and erection, the purpose of the Ex12 qualification is to instruct and assess the competence of candidates who are either aspiring or practising application design engineers.

COURSE CONTENT

The course consists of two separate units, Ex12a (Non-Intrinsically Safe equipment) and Ex12b (Intrinsically Safe equipment), which covers the minimum requirements for competence of electrical application design engineers, whose responsibilities include the selection of appropriate certified electrical equipment for pre-determined hazardous areas.
Candidates that successfully complete the Ex12 Application Design Engineer qualification will be able to:
Ex12A: meet the competency requirements of IEC 60079 -14 for 'Designers (design & selection)' for the design of Non-Intrinsically Safe electrical equipment installations in explosive atmospheres.
Ex12B: meet the competency requirements of IEC 60079 -14 for 'Designers (design & selection)' for the design of Intrinsically Safe electrical equipment installations in explosive atmospheres.

ENTRY REQUIREMENTS

- Practicing competent electrical application design engineers
- Practicing competent electrical and instrument operatives aspiring to be application design engineers
- Electrical/instrument engineers aspiring to be application design engineers
- Employer supporting letter confirming the benefit of the Ex12 course for the individual

WHO SHOULD ATTEND?

This qualification is suitable for aspiring or practising application design engineers who have experience of selecting certified Ex electrical equipment for installations in locations where gases and vapours can potentially create a hazardous environment.

ASSESSMENT

Candidates must undertake several examinations which cover both Ex12a and Ex12b including:
- Marking exam (45 minutes)
- Core exam (45 minutes)
- Standards exam – Parts 1 and 2 (2 hours 15 mins)
- Design exam – Parts 1 and 2 (3 hours)

DURATION - 5 DAYS