



EXERT CERTIFICATION



IECEX

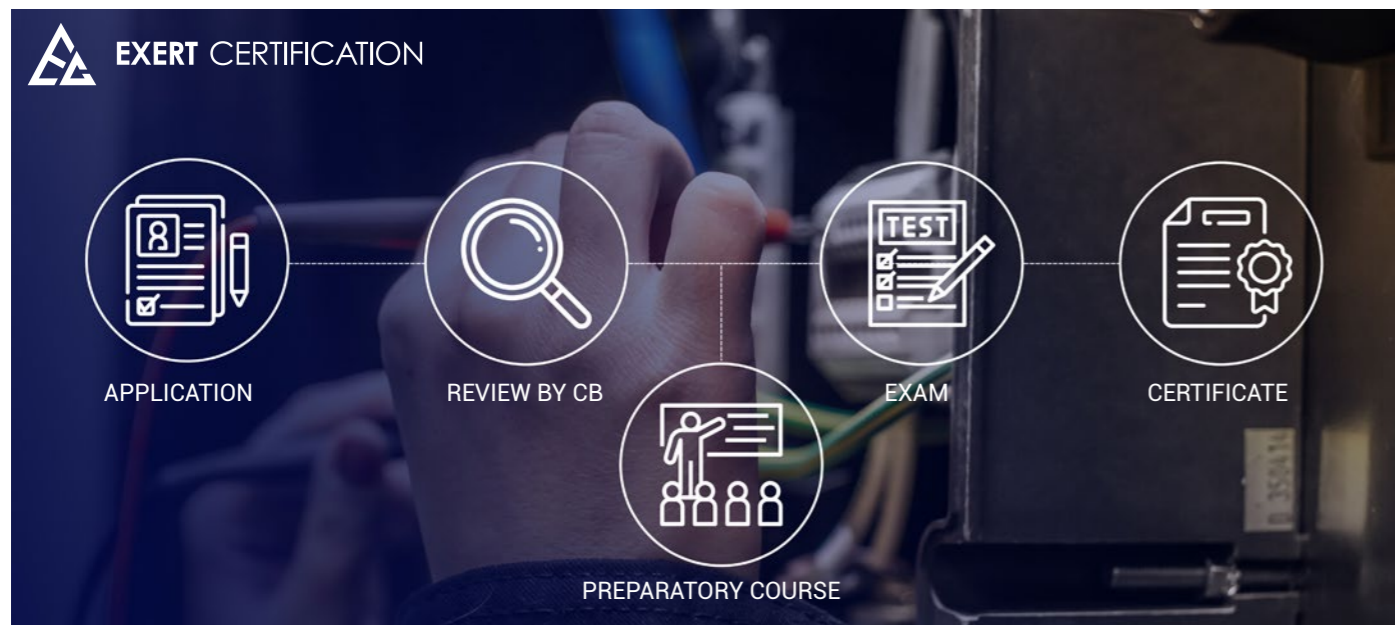
Certification of Personnel Competence
CoPC CERTIFICATION AND PREPARATORY COURSES

IECEX personnel certification

PREPARATORY COURSES

TO BE ABLE TO WORK SAFELY in hazardous areas requires knowledge and skill. A minor mistake may be enough to cause a fatal accident. For this reason international authorities have stringent requirements for documented competence. IECEX CoPC is the only international scheme for the certification of personnel associated with the design, installation, operation and inspection of electrical installations in or associated with hazardous areas. We can help you to prepare for the certification exam.

Read more about certification at www.exertcertification.com



Regular recertification ensures the certified person maintains the required level of competence.

IECEX CoPC



THE SCHEME COVERS 11 CERTIFICATION UNITS

Ex 000

Basic knowledge and awareness to enter a site which includes a classified hazardous area.

Ex 001

Apply basic principles of protection in explosive atmospheres.

Ex 002

Perform classification of hazardous areas.

Ex 003

Install explosion-protected equipment and wiring systems.

Ex 004

Maintain equipment in explosive atmospheres.

Ex 005

Overhaul and repair of explosion-protected equipment.

Ex 006

Test electrical installations in or associated with explosive atmospheres.

Ex 007

Perform visual and close inspection of electrical installations in or associated with explosive atmospheres.

Ex 008

Perform detailed inspection of electrical installations in or associated with explosive atmospheres.

Ex 009

Design electrical installations in or associated with explosive atmospheres.

Ex 010

Perform audit inspection of electrical installations in or associated with explosive atmospheres.

Candidates should ensure they are familiar with the following publications free to download at iecex.com:

IECEX 05A

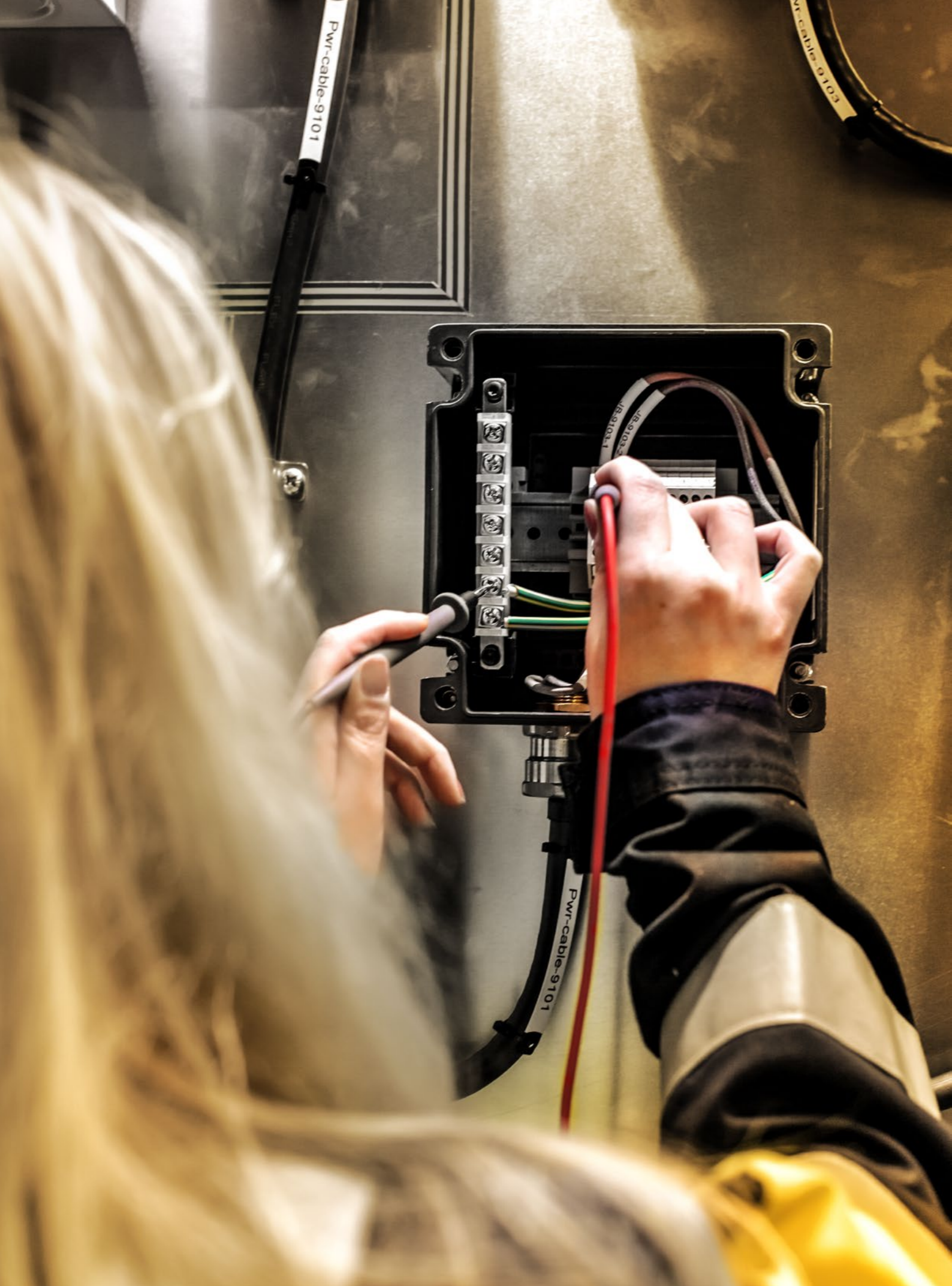
Guidance and instructions for applicants.

IECEX OD 504

Specification for Units of Competency Assessment Outcomes.

IECEX OD 502

Application for an IECEX Certificate of Personnel Competencies (CoPC), documentation and information requirements.



READY FOR THE EXAM?



IECEX COPC CERTIFICATION REQUIRES A HIGH STANDARD

of professional knowledge and skills. If you are seeking certification, you must have updated knowledge of Ex Basic principles, with a thorough knowledge of relevant standards and in-depth knowledge of the exam units you are going to take.

Our optional preparatory courses

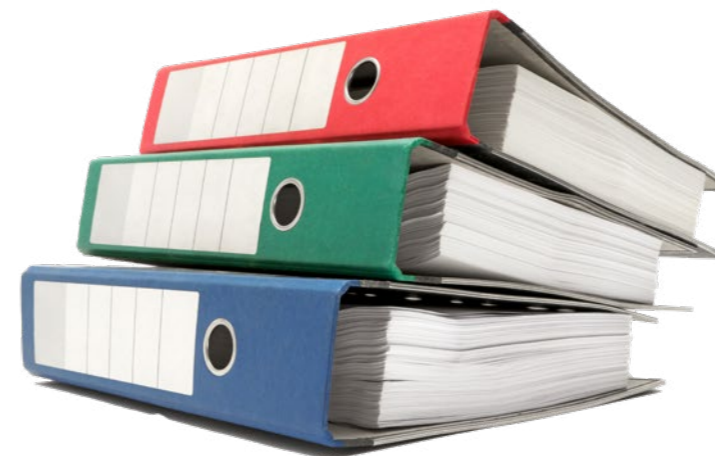
offers updated Ex information, an introduction to OD 504*, maintenance, and English terminology. OD 504 provides a detailed description of the contents of the various certification units.

Certification

Exert Certification is an approved Certification Body (CB) for IECEx CoPC. This means that you can take the certification exams at any of the Exert Certification Assessment Centres. You can find further information and an application form at www.exertcertification.com. It is not required to have any training before you apply for CoPC, but it is recommended that all candidates refresh their competence with training prior to the assessments. Preparatory training can be offered from Exert or any other training provider.

*www.iecex.com

All documentation in one card



Ex 001

BASIC PRINCIPLES

THIS IS A REFRESHER COURSE

providing basic knowledge and skills for working in or associated with hazardous areas and a thorough preparation for the exam in Ex 001 - Basic Principles for Protection in or associated with hazardous areas.

Intended for

Personnel working in electrical, automation and related fields who wish to prepare for the examination Ex 001 Basic Principles. There are no minimum technical qualification requirements, but since this is a refresher course, participants must have good basic knowledge and training in working in hazardous areas.

Contents

The course is based on the competence requirements described in OD 504 and the contents of the IEC 60079 series of international standards.

- Ex principles
- Working in hazardous areas
- The IECEx certification scheme
- Ex protection methods
- Marking and labelling
- Summary of regulations and norms
- Ex-terminology in English

Duration Training course: 1 day (may vary)

Duration Assessment: 0,5 day



Ex 002

PERFORM CLASSIFICATION OF HAZARDOUS AREAS

THIS IS A REFRESHER COURSE

providing basic knowledge and skills for working in or associated with hazardous areas and a thorough preparation for the exam in Ex 002 - Perform classification of hazardous areas.

Intended for

Personnel working in electrical, automation and related fields who wish to prepare for the examination Ex 002.

This Unit of Competence covers knowledge and skills to classify areas where explosive materials may exist. Competence in this unit requires a degree, diploma or equivalent in a technical subject., see IECEx OD 504 for details

Contents

This Unit of Competence covers knowledge and skills to classify areas where explosive materials may exist.

Ex 002 is based on IEC 60079-10-1 and IEC 60079-10-2 and any other relevant standard that apply to this Unit of Competence. The assessment has a theoretical part and a practical part.

Duration Training course: 1 day (may vary)

Duration Assessment: 1 day

Ex 003 and 006

INSTALLATION AND TESTING

THIS IS A REFRESHER COURSE

covering basic knowledge and skills for those working with the installation and testing of electrical installations in or associated with hazardous areas. It provides invaluable preparation for the exam in certification units Ex 003 and Ex 006 "Installation and test in explosive atmospheres". Ex 003 and Ex 006 "Installation and test in or associated with hazardous areas".



Ex 004, 007 AND 008

INSPECTION AND MAINTENANCE

THIS IS A REFRESHER COURSE

covering knowledge and skills for those working with inspection and maintenance of electrical installations in or associated with hazardous areas. It helps you prepare for the exam in certification units Ex 004, 007 and 008 "Inspection and maintenance of electrical installations in or associated with hazardous areas".



Intended for

Personnel working in electrical, automation and related fields who wish to prepare for the examination Ex 003 and 006 Installation and testing of Ex installations. Requires a minimum of 3 years practical experience in industrial electrical installation and relevant technical education.

Contents

The course is based on the competence requirements described in OD 504 with particular emphasis on the IEC 60079-14 standard. It is intended as a preparatory course covering topics in IECEx certification for:

Duration Training course: 2 days (may vary)

Duration Assessment: 1 day

Unit 003 Installing Ex equipment

- General information on Ex installations
- Fitting requirements associated with protection methods
- Requirements for cable extension
- Identification of equipment and protection methods
- Documentation requirements

Unit 006 Testing Ex installations

- Measuring insulation resistance
- Functional testing of equipment
- Typical faults and defects
- Checking and correcting documentation

Intended for

Personnel working in electrical, automation and related fields who wish to prepare for the examination Ex 004, 007 and 008 Inspection and maintenance. For operatives requires a minimum of 3 years' experience in industrial maintenance practice and relevant technical education. For responsible person requires minimum of 3 years of Ex maintenance practice.

Contents

The course is based on the competence requirements described in OD 504 with particular emphasis on the IEC 60079-17 standard. It is intended as a preparatory course covering topics in IECEx certification for:

Duration Training course: 1 day (may vary)

Duration Assessment: 1 day

Unit 004 Maintenance of Ex equipment

- General information on maintenance of Ex installations
- Maintenance principles and systems
- Maintenance requirements and responsibility
- Identifying equipment and protection methods

Unit 007 Visual and close inspection

- Inspection levels
- Checklists and procedures
- Typical faults and defects

Unit 008 Detailed inspection

- Inspection level
- Checklists and procedures
- Work methods and test equipment
- Checking and correcting documentation



PREPARATORY COURSE

Ex 009

DESIGN ELECTRICAL INSTALLATIONS



THIS IS A REFRESHER COURSE

covering knowledge and skills for those designing electrical installations in Ex-areas. It enables you to prepare thoroughly for the exam Ex 009: Designing Electrical Installations.

Intended for

Electrical engineers and automation engineers and other electrical design personnel wishing to prepare for the exam Ex 009 Designing electrical installations.

Requires a minimum of 3 years' experience in design of general electrical installation and relevant technical education.

Contents

The course is based on the competence requirements described in OD 504 with particular emphasis on the IEC 60079-14 standard. It is intended as a preparatory course covering topics in IECEx certification for:

Ex 009 Designing electrical installations

- Revision Ex 001
- Selecting Ex equipment
- Selecting cable entries
- Understanding data sheets
- Understanding zone maps

Duration Training course: 1 day (may vary)

Duration Assessment: 1 day



EXERT CERTIFICATION

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Exert Certification is approved as Certifying Body (CB) by IECEx for the Certificate of Personnel Competence scheme (CoPC)

www.exertcertification.com