



IECEX CoPC Certification Programme

Competency Certification for Personnel in Hazardous Areas



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About KLAЕ PLT:

KLAЕ PLT is a part of KLAЕ group, accumulatively it has more than 40 years of experience in dealing with installation and product for hazardous and harsh environment.

It has certified professional engineers and technologist with doctorate qualifications and holding professorship.

KLAЕ PLT is remote assessment centre for CoPC in Malaysia.

What is IECEX CoPC?

IECEX CoPC (Certification of Personnel Competence) is an internationally recognized certification scheme that ensures individuals working in hazardous areas are competent and compliant with safety standards. It is part of the IECEX System, managed by the International Electrotechnical Commission (IEC) and administered through IECEX-accredited Certification Bodies (ExCBs).

IECEX CoPC certifies people, not the product or companies. It verifies that an individual has:

The Knowledge, The Skills, The Practical Experience to perform the job

This certification ensures safe operations in explosive atmospheres while reducing operational risks and improving workplace safety.

Training Programme Overview:

- 100% **HRDCorp Claimable** under the SBL-Khas Scheme
- Duration: 1 – 5 Days (Depending on the module selection)
- Mode: Classroom + Practical + Simulation
- Assessment: Theory + Practical
- Outcome: IECEX CoPC Certification

Areas of Competence:

Professionals involved in:

- Plant Design
- Equipment Selection
- Installation
- Inspection & Maintenance
- Repair & Overhaul

Are assessed and certified by independent experts.

Who Needs IECEX CoPC?

- Oil & Gas (upstream, midstream, downstream)
- Petrochemical plants
- Pharmaceuticals
- Any facility with hazardous (Ex) areas
- Mining
- Power generation
- Grain handling
- Chemical processing

Common roles include:

- Electricians
- Instrument technicians
- Maintenance personnel
- Designers and installers of Ex equipment
- Mechanical fitters
- Inspectors
- Engineers
- Supervisors

Key Benefits:

- Reduce risk of accidents
- Ensure compliance with international standards
- Increase client confidence
- Improve competency and credibility

Certification Process:

Step 1: Select competency units, submit application

Step 2: Review & approved by IECEX Certification Body (ExCB)

Step 3: Professional training by KLAЕ PLT

Step 4: Assessment by ExCB

Step 5: Certification awarded



Venue:

KLAЕ PLT, IECEX CoPC Training Centre
No. 53, Jalan Metro 1/1, Bandar Metro Puchong
47160 Puchong, Selangor, Malaysia.

+60 3 8076 7818 training@klae-plt.com

KLAЕ Group for Hazardous and Harsh Environment Business:



www.klaesb.com



www.cmkautomation.com



www.exteamsb.com



www.KLAЕ-PLT.com

Unit of competence

Unit Ex 000 - Basic knowledge and awareness to enter a site which includes a classified hazardous area

Unit Ex 001 - Principles of protection in explosive atmospheres knowledge

Competence in plant or machinery operation or installations, maintenance or service functions

Unit Ex 002 - Perform classification of hazardous areas

Competence in gathering and analyzing technical data and using this data for risk assessment

Unit Ex 003 - Install explosion-protected in explosive atmospheres

Competence in maintenance of industrial electrical, electronic, instrumentation and/or data communication equipment and wiring systems

Unit Ex 004 - Maintain equipment in explosive atmospheres

Competence in installation of electrical, electronic, instrumentation and/or data communication equipment and wiring systems

Unit Ex 005 - Overhaul and repair of explosion-protected equipment

Competence in overhaul and repair of industrial electrical/electronic equipment

Prerequisite

none

none

none

Unit Ex 001

Unit Ex 001

none

Unit Ex 006 - Test electrical installations in or associated with explosive atmospheres
Competence in conducting testing of general electrical, electronic, instrumentation and/or data communication installations

Unit Ex 007 - Perform visual and close inspection of electrical installations in or associated with explosive atmospheres
Competence in general electrical installation inspection is an alternative to the specific units

Unit Ex 008 - Perform detailed inspection of electrical installations in or associated with explosive atmospheres

Competence in general electrical installation inspection is an alternative to the specific units

Unit Ex 009 - Design electrical installations in or associated with explosive atmospheres
Competence in designing electrical systems and installations

Unit Ex 010 - Perform audit inspection of electrical installations in or associated with explosive atmospheres

Unit Ex 011 - Basic knowledge of the safety of hydrogen systems

Refresher - Refresher on Installation, Maintenance, Testing & Inspection of Electrical Equipment in Hazardous Areas (Ex 001, 003, 004, 006, 007 & 008)

Prerequisite

Unit Ex 001

Unit Ex 001

Unit Ex 001

Unit Ex 001

Unit Ex 002, 008 and 009

none

Unit Ex 001, 003, 004, 006, 007 & 008

IECEX CoPC Training & Certification Program Packages

• IECEX Unit Ex000

Duration: 1.5 days

• IECEX Unit Ex001

Duration: 3 days

• IECEX Unit Ex001 & Ex002

Duration: 5 days

• IECEX Unit Ex001 & Ex003

Duration: 4 days

• IECEX Unit Ex001, Ex003 & Ex004

Duration: 4 days

• IECEX Unit Ex001 & Ex004

Duration: 4 days

• IECEX Unit Ex001 & Ex005

Duration: 5 days

• IECEX Unit Ex001 & Ex006

Duration: 4 days

• IECEX Unit Ex001, Ex007 & Ex008

Duration: 5 days

• IECEX Unit Ex001 & Ex009

Duration: 5 days

• IECEX Unit Ex001 & Ex010

Duration: 3 days

• IECEX Unit Ex011

Duration: 4 days

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