

ROQQY TRAINING & DEVELOPMENT

CompEx TRAINING: CompEx Ex01, Ex02, Ex03 & Ex04

Roqqy

As a partner for PROTECHNIS, Roqqy is pleased to offer the CompEX training proposal

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1.0 Introduction

In response to international client requirements for certified electrical training for installation and maintenance of electrical equipment in hazardous areas, Protechnis have developed an approved training scheme which includes both mobile & fixed centre training capabilities.

The term hazardous area used above covers areas within Oil & Gas upstream or processing and petrochemical facilities and other industries, which may contain hydrocarbon gases or other types of explosive gases or vapours.

It is vitally important that electrical installations within hazardous areas are installed and maintained in accordance with the hazardous area certification of the devices so as to maintain the features that render the devices suitable for use in hazardous areas.

This course covers the installation, maintenance and inspection regimes, necessary to ensure electrical devices are not capable of igniting explosive atmospheres found in the Oil & Gas, Petrochemical and other industries.

The mobile training unit can be taken to client sites to provide a fully mobile training service, whereas the fixed centres are located in specific geographic locations.

The training unit is shipped to the client's premises and the instructors are flown into the country to carry out the training on the client's premises.

The following trademark is used to identify approved CompEx hazardous area training schemes:



CompEx is a registered trade mark for Ex training, which is approved and administered by JTL Ltd within the UK, in conjunction with the Engineering Equipment & Materials Users Association (EEMUA).

The CompEx qualification is widely recognised within the Oil & Gas and Petrochemical sectors and is often made a pre-requisite of employment within these industries, due to the serious risk associated with ignition of explosive gases or vapours.

JTL Ltd granted Protechnis approval to construct the fixed satellite centre and to provide training in accordance with JTL Ltd procedures and guidelines. Protechnis is licensed as a CompEx Centre, which identifies Protechnis as an approved CompEx training organisation. Candidates attending and passing the course will be issued with an Oil & Gas and Petrochemical industry recognised certificate of competency.

The certificate is valid for five years; thereafter a two day refresher course must be attended by the candidates, to maintain their CompEx Core Competency Certification.

2.0 CompEx Training Course Details

2.1 Course Aims and Objectives

2.1.1 Foundation

The aim of the course is to provide delegates with basic knowledge and understanding on terminology and protection concepts for equipment utilised in a potentially flammable atmosphere.

The foundation level course provides an ideal introduction to CompEx. Following successful completion of this level candidates can develop their competence further to gain a certificate of core competence in additional Ex modules.

At the end of the course candidates will be able to:

- Recommend the remedial action required to maintain hazardous area equipment to meet the required standards
- Select the protection concept, enclosure / equipment, components
- and install correctly in hazardous areas
- Understand how to identify problems with equipment installed in hazardous
- areas with respect to the appropriate British, European and IEC standards.
- Understand that equipment could be a source of ignition that could contribute to an Explosion
- Understand the concept of area classification and the need to zone flammable atmospheres accordingly
- Understand the terminology and definitions associated with hazardous areas
- Understand the various protection concepts namely Exd, Exe, Exn, Ex ia & ib, Exi, Exp,
- EEx o, q, m & s, Exm, c, fr, k.

Understand how to identify problems with equipment installed in hazardous areas with respect to the appropriate British, European and IEC standard.

2.1.2 Full Certificate

To provide Training and Assessment of Competence, for electrical and instrumentation personnel to work on electrical apparatus for use in potentially explosive gas atmospheres.

On completion of the course the delegates will have gained an understanding of:

- **Ex01** – Preparation and Installation of Ex'd' Ex'e' Ex'n' and Ex'p' systems in potentially explosive atmospheres.
- **Ex02** – Inspection and Maintenance of Ex'd' Ex'e' Ex'n' and Ex'p' systems in potentially explosive atmospheres.
- **Ex03** – Preparation and Installation of Ex'i' systems in potentially explosive atmospheres.
- **Ex04** – Inspection and Maintenance of Ex'i' systems in potentially explosive atmospheres.

The references in bold above represent the specific training modules within the course curriculum.

2.2 Course Duration & Candidate Requirements and Numbers

2.2.1 Foundation

The course duration is TWO days.

To register for the course, the candidate must show evidence of employment within relevant Electrical and/or Instrumentation fields. It is also mandatory that the candidate's provide proof of identification.

This information is required in advance of the course start, so the candidate can be added to the CompEx Register.

The CompEx register is maintained by JTL Ltd, so that the names of candidates passing the course are stored for future reference.

If a candidate fails part of the course assessments or examination, they will be offered a re-sit.

The costs detailed in this proposal do not include re-sits, which will be charged as extra.

2.2.2 Full Certificate

The course duration is five days for the main certificate and two days for the refresher certificate.

The training facility can accommodate a maximum of 10 candidates to be trained in the 5 day course at any one time.

To register for the course, it is mandatory that the candidate and their employer are able to demonstrate that the candidate has electrical experience and works in the field of electrical installation and maintenance. It is also mandatory that the candidate's provide proof of identification.

This information is required in advance of the course start, so the candidate can be added to the CompEx Register.

The CompEx register is maintained by JTL Ltd, so that the names of candidates passing the course are stored for future reference.

If a candidate fails part of the course assessments or examination, they will be offered a re-sit.

The costs detailed in this proposal do not include re-sits, which will be charged extra by module per candidate basis. Retraining may also be provided before re-examination, depending on candidates requiring the re-sits. This can be discussed and arranged with the Client at the time of training.

2.3 Typical Course Schedule & Contents

2.3.1 Foundation

Typical teaching hours would be 9am – 5.30pm with 45 minutes for lunch and 2 x 20 minute breaks. However, the teaching timetable may be arranged to suit the Client's requirements (e.g. prayer times etc.)

The course comprises a combination of classroom delivery for day 1 and the morning of day 2, followed by a multiple choice on line assessment. A laptop or desktop computer will be provided for each candidate with internet access for the Multi Choice examination. This examination must be taken on line within a specific time period allocated.

2.3.2 Full Certificate

Typical teaching hours would be 9am – 4pm with 45 minutes for lunch and 2 x 20 minute breaks. However the teaching timetable may be arranged to suit the Client's requirements (e.g. prayer times etc.) a typical standard arrangement would be as shown below:-

All breaks and mealtimes are to take place on the Client's premises.

Day 1 & Day 2

Classroom based theory covering general hazardous area principles and techniques, Ex'd' Ex'e' Ex'n' Ex'p' and Ex'i'.

The course will be delivered in the English language.

Day 3

9:00am – 10:40am Correct Glanding Techniques

11:00am – 4:00pm Introduction to assessment area then **Ex01** input and assessment.

Day 4

9:00am – 10:40am Introduction to assessment area then **Ex02** input and assessment.

11:00am – 2:00pm Intrinsic Safety theory

2:30pm – 4:00pm Introduction to assessment area then **Ex04** input and assessment.

Day 5

9:00am – 12:30pm Introduction to assessment area then **Ex03** input and assessment.

1:15pm – 4:00pm Tutorial and **Multi Choice** question examination.

A laptop or desktop computer will be provided for each candidate with internet access for the Multi Choice examination. This examination must be taken on line within a specific time period allocated. A training room will be provided for this in the afternoon session of day 5.

A link to the exam portal will be supplied separately with log in names and pass codes by the invigilator.

The invigilator will check separately that all examinations have been successfully submitted.

2.4 Assessment and Certification

2.4.1 Foundation

Each candidate is required to demonstrate competence through the multiple-choice examination paper.

A CompEx ExF certificate of core competence will be issued by JTL to all candidates who successfully complete the assessment.

The CompEx Foundation Certificate of Core Competence is valid for up to 5 years from the date of issue and must be refreshed before the certificate expiry date.

2.4.2 Full Certificate

Each unit requires the candidate to complete a competence validation test consisting of a multi choice question paper along with a practical assessment.

A CompEx certificate of core competence will be issued by JTL to all candidates who successfully complete the assessment tests.

The CompEx Certificate of Core Competence is valid for up to 5 years from the date of issue and must be refreshed before the certificate expiry date.

As previously referenced in Section 2.2.2, re-sits can be given for those candidates failing any of the practical assessments or multi choice exam paper at extra cost.

3.0 Administration

The costs detailed in this proposal cover all course administration.

Administration covers costs to register candidates with the UK certifying authority, JTL Ltd, which involves obtaining candidate qualifications and identification documents. Also, the processing of candidate examination packages during examination and marking.

Administration also includes production of CompEx certificates and issue to the Client.

4.0 Candidate Requirements

4.1 Qualifications & Work Experience

All candidates undertaking the CompEx Course must have relevant qualifications in their field such as a Level 3 Advanced Apprenticeship or local equivalent. Candidates must be able to show a documented history of working in industry as a competent technician.

This can be shown with:

- Relevant qualification certificates showing time served (Apprenticeship)
- Other relevant certificates such as Site Safety Passports, EEHA etc.
- Employer endorsement letter signed by someone in a technical managerial role (Not HR)
- Up to date CV with available references

4.2 Identification

Candidates are required to provide proof of identification by way of passport or driving license or other official ID card (accepted at the digression of Protechnis Ltd). All ID provided must be Photo ID.

Candidates are also asked to provide a digital photograph of themselves (passport style) for the creation of their CompEx ID card if the course is passed. (Date of first CompEx Cards to be issued TBC by JTL)