



SKILL + LEARNING

MOXI

For further information or customised training:

Call 08 9479 3167

Visit www.moxi.com.au

RTO Provider Number 51160

Units of Competency



PLANNING & DESIGN

COURSE LENGTH TARGET HOURS PRACTICAL CONTENT THEORETICAL CONTENT

Classroom
or
Self-Paced

40



Target Audience

This course is aimed at electrical engineers or senior electrical tradespersons whose job function involves the design of explosion protected electrical systems and planning installations for potentially hazardous areas. Delivery consists of Online Assessments and Training Materials along with support from our elite Instructors & Assessors.

Selection Requirements

The planning component of this course requires previous competency with the installation of explosive protected equipment while the design component requires a confirmation of prior competency with designing electrical systems and installations at AQF level 6 or equivalent. Sample pre-requisite units include (but are not limited to): See AS/NZS4761

UEENEEM024A Install explosion-protected equipment and wiring systems - gas atmospheres
OR

UEENEEG125A Plan electrical installations with an LV demand up to 400A per phase;

UEENEEI112A Verify compliance and functionality of process control installations;

AND at least one of the following (or equivalent)

UEENEEE115B Develop design briefs for electro technology projects; OR

UEENEEG130A Design switchboards rates for high level faults; OR

- UEEHA0004 - Enter a classified hazardous area to undertake work related to electrical equipment
- UEEHA0027 - Manage continuous supervision inspection of electrical installations for hazardous areas.
- UEEHA0029 Plan electrical installations for hazardous areas (all endorsements)
- UEEHA0021 Design explosion-protected of electrical systems and installations

Course Content

This skill set equips the learner with the advanced knowledge of the planning and design strategies for the selection of suitable explosion protected equipment, wiring systems and the design of electrical installations in potentially explosive atmospheres. Topics include equipment selection, selection of wiring systems and the earthing requirements, Ex e power dissipation, IS loop design requirements, the application of gas detectors and the documentation requirements for the hazard area verification dossier. Learners must have access to AS/NZS 60079 series and AS/NZS 3000 Australian wiring rules.

Assessment

MOXI's courses contain in depth theory components. Practical aspects are assessed via the programme and from submitted evidence. Participants MAY be required to submit evidence of practical assessments and application of skills. Can be complete at MOXI Venues or via our Cloud Assessment Portal.

Outcome

On successful completion, a **Statement of Attainment** will be issued in partial completion of the Advanced Diploma of Engineering UEE61222 Explosion Protection.