



Available Through:



SKILL + LEARNING

moxi

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RTO Provider Number 51160



PLANNING & DESIGN

COURSE LENGTH

TARGET HOURS

PRACTICAL CONTENT

THEORETICAL CONTENT

5 days

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.

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):

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)

UEENEEE115A Develop design briefs for electro technology projects; OR

UEENEEG130A Design switchboards rates for high level faults; OR

UEENEEI123A Design electronic control systems.

Units of Competency

UEENEEM054A Plan electrical installations for hazardous areas - gas atmosphere

UEENEEM055A Plan electrical installations for hazardous areas - dusts atmospheres

UEENEEM056A Plan electrical installations for hazardous areas – pressurization

UEENEEM057A Design explosion protected electrical system and installations – gas atmospheres

UEENEEM058A Design explosion protected electrical system and installations – dusts atmospheres

UEENEEM059A Design explosion protected electrical system and installations - pressurization

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. All practical aspects are delivered and assessed in our specialised EEHA workshop. When completed on site, participants are required to submit evidence of practical assessments and application of skills where access to plant and/or machinery is not available during the course.

Outcome

On successful completion of UEENEEM054A, UEENEEM055A & UEENEEM056A, a *Statement of Attainment* will be issued in partial completion of the Certificate IV in Hazardous Areas – Electrical (UEE42611)

On successful completion of UEENEEM057A, UEENEEM058A & UEENEEM059A, a *Statement of Attainment* will be issued in partial completion of the Advanced Diploma of Electrical – Engineering (UEE62211)