

**1. Module details**

**Module name**

**Mains Layout: Mains Design Information Sources**

**Module duration**

It is expected that students with the appropriate entry knowledge and skills will successfully complete this module in 18 – 20 hours.

**Module code**

NUE242

**Discipline code**

0703130

**2. Module purpose**

This module is designed to generally familiarise learners with the Electricity Act and associated Regulations, AS3000, various manuals and computer subsystems from which information pertaining to mains design work may be obtained.

**3. Prerequisites**

NUE229 Mains Layout: Data Acquisition.

**4. Relationship to competency standards**

This module addresses Units 4.2 and 4.3 of the E.S.I. National Competency Standards for Overhead Line Work and Cable Jointing.

**5. Content**

**Review requirements of**

Electricity Act and Regulations  
AS3000

conditions of supply

tree clearing

environmental policy

various manuals (accounting, design, planning, policy, construction, other authorities)

**Computer subsystems**

plant management

network management

stores

customer accounts

**6. Assessment strategy**

**Assessment methods**

Short answer questions (written, oral or graphic or computer based).  
 Suitable practical exercises which assess the skills required of each learning outcome.

**Conditions of assessment**

Theory room for written tests together with practical field observation.  
 Learners must demonstrate competence in all learning outcomes to the standard described by the assessment criteria and perform all activities in a safe manner in accordance with State Occupational Health and Safety Acts and Regulations, Codes of Practice and Work Procedures when applicable.

**7. Learning outcome details**

**Learning outcome 1**

**Locate information pertaining to mains design in Acts, Regulations and Standards.**

**Assessment criteria**

1.1 Extract relevant information from Acts, Regulations, codes of practice and industry work practices and standards pertaining to mains design.

**Learning outcome 2**

**Extract information from manuals used in mains design.**

**Assessment criteria**

2.1 Extract all relevant information from mains design manuals as per industry codes of practice and work instructions.

**Learning outcome 3**

**Extract information used in mains design from computer subsystems.**

**Assessment criteria**

3.1 Extract information used in mains design from computer subsystems relevant to a mains design project to industry standard accuracy.  
 3.2 Complete a practical assignment using mainframe computer subsystems relevant to a mains design project to industry standard accuracy.

**8. Delivery of the module**

**Delivery strategy**

Delivery strategies must be suitable for both theoretical and/or practical learning and module purpose. It is recommended that learning and assessment be facilitated in a holistic manner which may require a learning sequence other than indicated in the body of this module descriptor.

**Resource requirements**

Electricity Acts and Regulations  
Enterprise construction manuals  
Enterprise design manuals  
Enterprise work manuals and standard instructions  
Enterprise accounting manual  
Computer system and software  
Industry specific forms

**Occupational health and safety requirements**

Learners should be made aware of Occupational Health and Safety issues in all situations and be expected to demonstrate safe working practices at all times. Electrical safety must be emphasised.