

**1. Module details****Module name****Mains Layout: Mapping and Planning****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**

NUE231

**Discipline code**

0703130

**2. Module purpose**

This module provides an understanding of various maps and plans used in mains design work including survey plans and plans provided by other authorities as well as the skills necessary to update maps from “as constructed” works plans.

**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****Mapping**

symbols  
 abbreviations  
 extracting distances  
 extracting information from survey plans, registered plans, cadastral maps, topographical maps, parish maps)

**Works plans**

symbolology  
 layout  
 schedules and schematics  
 extracting information

**Updating map records**

interpretation of ‘as constructed’  
 works plan  
 updating mains maps, geographic and schematic map records

**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.

## 7. Learning outcome details

### Learning outcome 1

**Extract detailed information from electricity and other authority maps.**

### Assessment criteria

- 1.1 Extract information from the following plans and/or maps to industry standard accuracy:
- survey plans
  - registered plans
  - cadastral maps
  - topographical maps
  - parish maps.

### Learning outcome 2

**Set out a standard works plan.**

### Assessment criteria

- 2.1 Generate a simple work plan from information provided to industry standard accuracy (drawing skills should not be assessed).

### Learning outcome 3

**Update map records from an “as constructed” works plan.**

### Assessment criteria

- 3.1 Update map records from an “as constructed” works plan 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

Enterprise construction manuals  
 Relevant Australian standards  
 Enterprise work manuals and standing instructions  
 Acts and Regulations

### 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.