This curriculum framework includes courses that are accredited for the HSC and provide students with the opportunity to obtain nationally recognised vocational qualifications.

### Courses
- Electrotechnology (120 indicative hours)
- Electrotechnology (240 indicative hours)
- Electrotechnology School-based Traineeship Specialisation (60 indicative hours)
- Electrotechnology Extension (60 indicative hours)
- Electrotechnology School-based Apprenticeship (240 indicative hours)
- Electrotechnology School-based Apprenticeship Specialisation (60 or 120 indicative hours)

### Qualifications
The following qualifications are available through the Electrotechnology Curriculum Framework. They are dependent on the course undertaken and the selection and achievement of units of competency:
- Certificate I in ElectroComms Skills
- Certificate II Electrotechnology (Career Start)
- Certificate II Sustainable Energy (Career Start)
- Certificate II in Technical Support
- Statement of Attainment showing partial completion of
  - Certificate III in Electrotechnology Electrician

### Exclusions
- Students may not undertake the same or equivalent unit of competency in more than one VET course.
- The Electrotechnology Curriculum Framework contains no common units with any other Industry Curriculum Framework
- Exclusions relating to Industrial Technology (Electronics Industries) are to be advised.
**Course**: Electrotechnology (120 indicative hours)

2 units of credit – Preliminary or HSC
Board Developed Course

**Course Description**
This course is for students who wish to develop basic skills and knowledge in the electrotechnology-communications industry.

The purpose of this course is to provide students with an opportunity to develop basic work activities, including identifying and using a range of components, accessories, materials, tools, equipment, technologies and customs for carrying out work in the electrotechnology-communications industry.

This course comprises three compulsory units of competency and elective units to a minimum of 70 indicative hours.

This course is contained within Electrotechnology (240 indicative hours).

**Main Topics Covered**
The compulsory units of competency represent the basic skills, knowledge and attitudes required by workers within the electrotechnology industry. Students will need to develop and exhibit these competencies throughout the entire course. These compulsory units of competency focus on developing the skills required to work effectively within the industry. The compulsory units of competency specifically address occupational health and safety procedures, industry awareness and communicating with others.

**Particular Course Requirements**
Students must complete a minimum of 35 hours work placement.

**Assessment**

**Competency-based Assessment**
This is a competency-based course. This means that students work to develop the competencies, skills and knowledge described in each unit of competency. To be assessed as competent a student must demonstrate to a qualified assessor that they can effectively carry out the various tasks and combinations of tasks listed to the standard required in an electrotechnology environment. There is no mark awarded in competency-based assessment. Students are assessed as either ‘competent’ or ‘not yet competent’.

Students will be progressively assessed as ‘competent’ or ‘not yet competent’ in individual units of competency. When a student achieves a unit of competency it is signed off and recorded by the assessor.

Competency-based assessment determines the vocational qualification that a student will receive.

**Qualifications**
Depending on the selection and achievement of units of competency, students may be eligible for:
- Certificate I in ElectroComms Skills
- Statement of Attainment showing partial completion of
  - Certificate II Electrotechnology (Career Start)
  - Certificate II Sustainable Energy (Career Start)
Course: Electrotechnology (240 indicative hours)

4 units of credit – Preliminary and/or HSC
Board Developed Course

Course Description
This course is for students who wish to develop knowledge and skills to commence a career and be an effective employee in the electrotechnology industry, providing grounding in safety and basic skills and knowledge for work in any electrotechnology discipline.

This course comprises 7 compulsory units of competency and an elective pool containing a range of units of competency. There is also an additional elective pool for students undertaking a school-based traineeship containing 4 units of competency.

Main Topics Covered
The compulsory units of competency represent the basic skills, knowledge and attitudes required by all workers to work effectively within the electrotechnology industry.

The compulsory units of competency specifically address:
- basic first aid
- occupational health and safety procedures
- industry awareness
- communicating with others
- basic electrotechnology components.

The electives available in the course complement these competencies by providing a range of practical and technical skills. Elective units of competency are available in the following competency fields:
- assembly
- computer systems
- cross discipline
- data and voice
- electronics
- refrigeration and air-conditioning
- renewable energy.

Particular Course Requirements
Students must complete a minimum of 70 hours work placement.

Assessment

Competency-based Assessment
This is a competency-based course. This means that students work to develop the competencies, skills and knowledge described in each unit of competency. To be assessed as competent a student must demonstrate to a qualified assessor that they can effectively carry out the various tasks and combinations of tasks listed to the standard required in an electrotechnology environment. There is no mark awarded in competency-based assessment. Students are assessed as either ‘competent’ or ‘not yet competent’.

Students will be progressively assessed as ‘competent’ or ‘not yet competent’ in individual units of competency. When a student achieves a unit of competency it is signed off and recorded by the assessor.

Competency-based assessment determines the vocational qualification that a student will receive.

External Assessment (optional HSC examination)
The Higher School Certificate examination for Electrotechnology (240 indicative hours) will involve a written examination comprising multiple-choice questions, questions requiring short answers and questions requiring extended responses.

The questions will be based on the compulsory units of competency and the HSC Requirements and Advice detailed in the syllabus.

The examination is independent of the competency-based assessment undertaken during the course and has no effect on the eligibility of a student to receive a vocational qualification.
Qualifications

Depending on the selection and achievement of units of competency, students may be eligible for:

- Certificate I in ElectroComms Skills
- Certificate II Electrotechnology (Career Start)
- Certificate II Sustainable Energy (Career Start)
Course: Electrotechnology School-based Traineeship Specialisation (60 indicative hours)

1 unit of credit – Preliminary or HSC
Board Developed Course

Co-requisite: Electrotechnology (240 indicative hours)

Course Description
This course provides students undertaking a school-based traineeship the opportunity to achieve Certificate II in Technical Support. This qualification provides competencies to collect, receive and store stock at work sites, set up and store equipment and tools, assist in installation, fault finding, maintenance and repair activities.

Main Topics Covered
Students may select units of competency from either the regular or school-based traineeship elective pools from the Electrotechnology (240 indicative hours) course which they have not already undertaken.

The electives available in the course complement these competencies by providing a range of practical and technical skills. Elective units of competency are available in the following competency fields:
- assembly
- computer systems
- cross discipline
- data and voice
- electronics
- refrigeration and air-conditioning
- renewable energy.

Particular Course Requirements
Students may only undertake an Electrotechnology Specialisation Study if they are currently enrolled in, or have completed, the Electrotechnology (240 indicative hours) course.

Students must complete a minimum of 14 additional hours of mandatory work placement.

Assessment
Competency-based Assessment
This is a competency-based course. This means that students work to develop the competencies, skills and knowledge described in each unit of competency. To be assessed as competent a student must demonstrate to a qualified assessor that they can effectively carry out the various tasks and combinations of tasks listed to the standard required in an electrotechnology environment. There is no mark awarded in competency-based assessment. Students are assessed as either ‘competent’ or ‘not yet competent’.

Students will be progressively assessed as ‘competent’ or ‘not yet competent’ in individual units of competency. When a student achieves a unit of competency it is signed off and recorded by the assessor.

Competency-based assessment determines the vocational qualification that a student will receive.

Qualifications
Depending on the selection and achievement of units of competency, students may be eligible for:
**Course:** Electrotechnology Extension (60 indicative hours)

1 unit of credit – Preliminary or HSC  
Board Developed Course  

**Co-requisite:** Electrotechnology (240 indicative hours)

### Course Description
This course provides students with the opportunity to gain credit towards Certificate III in Electrotechnology Electrician.

### Main Topics Covered
The Electrotechnology Extension consists of the AQF level III unit of competency *UEENEEG001A Solve problems in electromagnetic circuits.*

### Particular Course Requirements
Students may only undertake the Electrotechnology Extension if they are currently enrolled in, or have completed, the Electrotechnology (240 indicative hours) course.  
Students must complete a minimum of 14 additional hours of mandatory work placement.

### Assessment

**Competency-based Assessment**

This is a competency-based course. This means that students work to develop the competencies, skills and knowledge described in each unit of competency. To be assessed as competent a student must demonstrate to a qualified assessor that they can effectively carry out the various tasks and combinations of tasks listed to the standard required in an electrotechnology environment. There is no mark awarded in competency-based assessment. Students are assessed as either ‘competent’ or ‘not yet competent’.  
Students will be progressively assessed as ‘competent’ or ‘not yet competent’ in individual units of competency. When a student achieves a unit of competency it is signed off and recorded by the assessor.

Competency-based assessment determines the vocational qualification that a student will receive.

### Qualifications
Depending on achievement of the unit of competency, students may be eligible for:
- Statement of Attainment showing partial completion of Certificate III in Electrotechnology Electrician.
Course: Electrotechnology School-based Apprenticeship (240 indicative hours)

4 units of credit – Preliminary and/or HSC
Board Developed Course

Course Description
This course is for students undertaking a school-based apprenticeship in the electrotechnology industry to gain credit towards a Certificate III qualification.

This course comprises 7 compulsory units of competency and an elective pool containing a broad range of units of competency.

Main Topics Covered
The compulsory units of competency represent the basic skills, knowledge and attitudes required by all workers to work effectively within the electrotechnology industry.

The compulsory units of competency specifically address:
- basic first aid
- occupational health and safety procedures
- industry awareness
- communicating with others
- basic electrotechnology components.

The electives available in the course complement these competencies by providing a range of practical and technical skills. Elective units of competency are available in the following competency fields:
- assembly
- computer systems
- cross discipline
- data and voice
- electronics
- refrigeration and air-conditioning
- renewable energy.

Particular Course Requirements
Students must be participating in a school-based apprenticeship training contract in Certificate III in Electrotechnology Electrician or Certificate III in Refrigeration and Air-Conditioning.

Assessment

Competency-based Assessment
This is a competency-based course. This means that students work to develop the competencies, skills and knowledge described in each unit of competency. To be assessed as competent a student must demonstrate to a qualified assessor that they can effectively carry out the various tasks and combinations of tasks listed to the standard required in an electrotechnology environment. There is no mark awarded in competency-based assessment. Students are assessed as either ‘competent’ or ‘not yet competent’.

Students will be progressively assessed as ‘competent’ or ‘not yet competent’ in individual units of competency. When a student achieves a unit of competency it is signed off and recorded by the assessor.

Competency-based assessment determines the vocational qualification that a student will receive.

External Assessment (optional HSC examination)
The Higher School Certificate examination for Electrotechnology School-based Apprenticeship (240 indicative hours) will involve a written examination comprising multiple-choice questions, questions requiring short answers and questions requiring extended responses.

The questions will be based on the mandatory units of competency and modules and the HSC Requirements and Advice detailed in the syllabus.

The examination is independent of the competency-based assessment undertaken during the course and has no effect on the eligibility of a student to receive a vocational qualification.
Qualifications
Depending on the selection and achievement of units of competency, students may be eligible for:

- Statement of Attainment showing partial completion of
  - Certificate III in Electrotechnology Electrician
**Course:** Electrotechnology School-based Apprenticeship Specialisation (60 or 120 indicative hours)

| 60 indicative hours course – 1 unit of credit – Preliminary or HSC |
| 120 indicative hours course – 2 units of credit – Preliminary or HSC |

**Co-requisite:** Electrotechnology School-based Apprenticeship (240 indicative hours)

**Course Description**
This course is for students undertaking a school-based apprenticeship in the electrotechnology industry to gain further credit towards a Certificate III qualification.

**Main Topics Covered**
Students may select additional units of competency from the elective pool from the Electrotechnology School-based Apprenticeship (240 indicative hours) course which they have not already undertaken.

**Particular Course Requirements**
Students may only elect to study a school-based apprenticeship specialisation if they are enrolled in, or have completed the Electrotechnology School-based Apprenticeship (240 indicative hours) course.

**Assessment**

**Competency-based Assessment**
This is a competency-based course. This means that students work to develop the competencies, skills and knowledge described in each unit of competency. To be assessed as competent a student must demonstrate to a qualified assessor that they can effectively carry out the various tasks and combinations of tasks listed to the standard required in an electrotechnology environment. There is no mark awarded in competency-based assessment. Students are assessed as either ‘competent’ or ‘not yet competent’.

Students will be progressively assessed as ‘competent’ or ‘not yet competent’ in individual units of competency. When a student achieves a unit of competency it is signed off and recorded by the assessor.

Competency-based assessment determines the vocational qualification that a student will receive.

**Qualifications**
Depending on the selection and achievement of units of competency, students may be eligible for:

- Statement of Attainment showing partial completion of
  - Certificate III in Electrotechnology Electrician