

### Curriculum Goals:

To provide the student with the opportunity to explore and experience the work of an electrician exposing them to the varied opportunities in electrical and to assist them in making an informed decision for further study and/or employment. This course is practical and experiential. The student will be given the opportunity to learn through engaging in realistic and authentic tasks.

**Vocational Pathway:** Manufacturing and Technology

**Learner Goals and Outcomes:** On completion of this course, the student will be able to:

1. Demonstrate knowledge, select and use electrical test instruments.
2. Test electrical appliances for safety.
3. Work safely with electrical equipment.
4. Demonstrate knowledge of electrical appliances, fittings and components
5. Install and connect electrical fittings, accessories, and appliances and test for safe operation and compliance.
6. Isolate low-voltage electrical subcircuits and confirm isolation with checks & tests.
7. Demonstrate knowledge of fundamental electrical safety in the workplace.

### Unit Standards

Unit No	Title	Level	Credits	Version	SR/R
750	Instrumentation and testing – Theory and Practical	2	2	9	SR
6705	Test electrical appliances for safety	3	3	9	
29465	Apply knowledge of electrical safety and safe working practices for electrical workers.	3	6	2	
29474	Demonstrate and apply knowledge of electrical fittings and components and their installation	3	6	2	
30657	Isolate low-voltage electrical subcircuits and perform basic checks and tests to confirm isolation.	2	1	2	SR
30658	Demonstrate knowledge of fundamental electrical safety in the workplace	2	2	2	SR
	<b>Total DAS Credits</b>		<b>20</b>		

**Vocational Pathways:** SR = Sector Related; R = recommended

To receive a Vocational Pathways Award, students must gain NCEA Level 2. Within the 80 credits required to achieve NCEA Level 2, 60 of these Level 2 credits must be from the recommended standards in one or more pathways, including 20 Level 2 credits from sector related standards.

**Methods of Assessment:** Three forms of assessment will be used:

1. Written assessment
2. Practical activities and observations
3. Practical demonstrations