



Certificate in Electrical Installation



Seychelles Institute of Technology
Providence Industrial Estate
248 4601501
Email: info@sit.sc
www.sit.sc

Seychelles Institute of Technology
Tel: +248 4601501: Email: info@sit.sc



Certificate in Electrical Installation

TVET PROGRAMME



Purpose

The purpose of this award is to enable the learner to attain standards required to achieve the Certificate in Electrical Installation, through the knowledge, skill and attitudes essential in all Electrical Installation, diagnostics, maintenance, commissioning and repair in accordance to the national standards.

This qualification enables a competent learner at NQF Level 3, under direct supervision, to demonstrate a basic ability to install, service, repair and operate Electrical equipment that is used in the Electrical industry.

Certificate in Electrical Installation

Introduction

The Certificate in Electrical Installation is a one (1200hours) training programme offered full-time to secondary five (S5) school leavers. This is equivalent to two (2) semesters.

Two semesters represents one academic year. The same is also offered on part-time and apprenticeship to learners already over three (3) semesters. Learners on the part-time come to SIT for lectures 1 1/2 days per week. Learners on the apprenticeship come to SIT one day per week.

An Electrical Installation Technician works on domestic Electrical appliances and also install Electrical wiring domestic and industrial buildings . .

The Electrical technician generally works inside domestic, commercial or public buildings during and after construction and production. He or she will install, maintain, fault find and repair systems to a high standard. Work organization and communication and interpersonal skills, problem solving, flexibility are the universal attributes of the outstanding Electrical Instal-

Certificate in Electrical Installation

Career Opportunities in the Electrical Installation Industry

Electrical Installation Technicians are employed to carry out Electrical Installation and service and repair Electrical equipment.

Job prospect for those entering this industry are projected to be excellent. The building and construction industry engage Electrical Installation Technician in the construction of buildings and other structures, alterations, additions, reconstruction, installation and maintenance and repairs of buildings and other structures.

Some of the job opportunities in the Electrical Installation Industry include Electrical Technician in the Hotel industry, working with Electrical contractors, being self-employed as an Electrical wireman and also Servicing and repairs Electrical equipment.

Progression and Further Studies

Graduates on the Certificate in Electrical installation can apply for the National Advanced Certificate in Electrical Installation followed by the Diploma in Mechanical Engineering.

Graduates with a National Diploma in Mechanical Engineering can be accepted in different universities for a degree study in Mechanical Engineering with specialization such as Plant Maintenance, Manufacturing, Mechatronics etc.

Certificate in Electrical Installation

Assessment Technique (s) including weighting (s)

The Craft Certificate grade is based on a weighted average of all unit result grades. Assessment approach varies from one unit to another. During every unit of study there is a minimum number of continuous assessments which the learner must undertake. This could be in the form of small tests and assignments and research. For the final unit assessments, in most cases a learner will have to sit for both a theory paper which can be multiple choice, structured or a mixture and a practical for skills demonstration.

Work based experience (WBE) is a compulsory unit and is assessed by the supervisor in the work place for full-time learners and through compilation of a portfolio and assessed against the performance criteria for the different elements in the WBE unit for learner on part-time.

To attain the required standard, a minimum of a pass grade must be achieved in all assessments prescribed .

Pass mark for every unit on the programme is 55%.

As per SIT Assessment Policy, the final mark for a unit is made up of 40% of all continuous assessments plus 60% from the results of the final unit assessment (s) and the following grades and

corresponding marks are used

Not yet Competent-	NYC	-0 -	54%
Pass	- P	-	55%-69%
Credit or Merit	- M or C-		70% - 84%
Distinction	- D	-	85%+

Certificate in Electrical Installation

Electrical Installation is closely associated with other parts of the construction industries at all stages, and is equally affected by rapid change in these sectors, including growing environmental trends and requirements.

Entry Criteria

Learners wishing to apply for the Certificate in Electrical Installation must have attained a pass in English, Mathematics and Combined Science or preferably Physics in the National Exams.

Secondary 5 leavers who have followed a special TVET programme from S4 at SIT are eligible to apply for the programme.

Learners credited with this qualification will be able to:

- ⇒ Understand the basic principle of Electrical Installation .
- ⇒ Demonstrate basic knowledge of the installation, maintenance procedures used in the trade of Electrical Installation.
- ⇒ Demonstrate good practices in basic Electrical Installation using all commonly used Electrical hand and power tools in compliance with all relevant health and safety legislation
- ⇒ Exercise appropriate judgement in diagnostics and delivering all services, installations and maintenance processes relating to

Certificate in Electrical Installation

- ⇒ Transfer and apply basic theoretical understanding and technical know-how to inspect, diagnose faults, maintain and repair electrical and mechanical malfunctions and bring back to normal operation systems in a wide variety of domestic, applications.
- ⇒ Exercise team work in the workplace,
- ⇒ Determine the function and role of Electrical in society to include an awareness of energy conservation and other ecological concerns.
- ⇒ Identify and work with component parts Electrical equipment.
- ⇒ Work safely and responsibly in the plant environment.

Certification

To be awarded certificate in Certificate in Electrical Installation, the learner must have achieved the expected performance criteria set out in the different elements of each unit that make up the programme. The total credit requirement for this Certificate is 120 Credits .

This qualification is a level 3 on the National Qualification Framework (NQF).

Certificate in Electrical Installation

18 months (3 semesters) for Part-time Candidates and Apprenticeship

Unit	Semester (s) involved	Unit prerequisite	Semester (s) involved
Health, Safety and Security Procedures	1	English	1
Science	1	Health, Safety and Security Procedures, Mathematics, English	1 1
Tools, Equipment and Instruments	1	Health, Safety and Security Procedures, English	1 1
Electrician Occupation in the context of Seychelles	1	English	1
Materials and Components	1	Health Safety and Security Procedures, Science	1 1
Inspection and Testing	2	Health, Safety and Security Procedures, Science, Tools, Equipment and Instruments	1 1 1
English	1		
Mathematics	1	English	1
Technical Drawing	1,2	Mathematics	1
ICT	2	English	1
Electrical Servicing	2	Health, Safety and Security Procedures, Science Mathematics	1 1 1
Electrical Distribution	2	Health, Safety and Security Procedures, Science, Mathematics. Domestic Installation	1 1 1 1
Domestic Installation	1,2	Health, Safety and Security Procedures, Mathematics, Materials and Components, Tools, Equipment and Instruments	1 1 1 1
Electric Motors	2	Health, Safety and Security Procedures, Mathematics, ICT. Materials and Components, Tools, Equipment Instruments	1 1 1 1
Work- Based Experience	1,2	All of the above	1 2

Certificate in Electrical Installation

Structure of the Programme (2 semesters) for Full-time learners	
Semester 1	Semester 2
Health, Safety and Security Procedures (30/15)	ICT (30/15)
Domestic Installation (40/40)	Domestic Installation (90/45)
Tools, Equipment and Instruments (20/20)	Electrical Servicing (30/15)
Electrician Occupation in the context of Seychelles (20/10)	Electrical Distribution (30/15)
	Inspection and Testing (30/30)
Science (40/20)	
Materials and Components (30/15)	Electric Motors (20/10)
English (20/10)	
Mathematics (20/10)	
Technical Drawing (1) (20/10)	Technical Drawing (2) (20/10)
Work Based Experience (W.B.E rotation (1) (210)	
Semester one: 250/140 (390) Notional Hours (250+140+210) = 600	Semester two: 230/160 (390) Notional Hours (230+160+210) = 600
Total hours for the programme: 1200	


Certificate in Electrical Installation

Books and References for Study

A number of publications are available for the study and training in the Certificate in Electrical Installation. They are books which are regularly updated with new editions. Learners are advised to identify the latest editions.

The following are available in the SIT library and can be borrowed for study and reference:

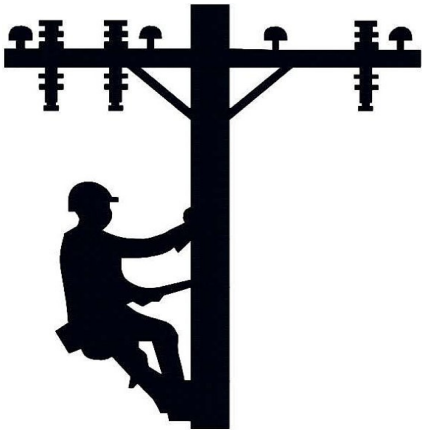
Journals and Articles on Electrical Installation can be accessed on-line via the internet using google. Computers with Internet access are available for research are also available in the SIT Library.



Certificate in Electrical Installation

List of Statements of Competencies for Certificate in Electrical Installation			
Statement of competency	Unit title	Semester (s) involved	Number of Credits
Apply Health, Safety and Security Procedures	Health, Safety and Security Procedures	1	4.5
Apply principles and practices of Tools, Equipment and Instruments	Tools, Equipment and Instruments	1	4.0
Analyse the Electrician occupation in the context of Seychelles	Electrician Occupation in the context of Seychelles	1	3.0
Demonstrate knowledge and understanding of Electrical Materials and Components	Materials and Components	1	4.5
Demonstrate knowledge of Science	Science	1	6.0
Use oral and written English	English	1	3.0
Apply principles and practice of Mathematics	Mathematics	1	3.0
Apply principles and practice of Technical Drawing	Technical Drawing	1,2	6.0
Apply principles and practice of ICT	ICT	2	4.5
Demonstrate knowledge and practice in Electrical Servicing	Electrical Servicing	2	4.5
Demonstrate knowledge and understanding of Electrical Distribution	Electrical Distribution	2	4.5

Certificate in Electrical Installation

Demonstrate Knowledge and application of Domestic Installation.	Domestic Installation	1,2	21.5
Demonstrate knowledge and application of Electric Motors	Electric Motors	2	3.0
Apply principle and practice of Inspecting & Testing.	Inspection and Testing	2	6.0
Demonstrate knowledge and skills relevant to Electrical during work Based-Experience	Work- Based Experience	1,2	42.0
Total Number of Credits =		120	
			
7			