

## Advanced Certificate in Plumbing



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## TVET PROGRAMME



## Advanced Certificate in Plumbing.



### Purpose

The purpose of this award is to enable the learner to attain the standard required to achieve the Advanced Certificate through the knowledge, skill and attitudes essential in all plumbing, and water distribution pipe installation, diagnostics, maintenance, commissioning and repair in accordance with national standards as well as in sewage.

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### Introduction

The Advanced Certificate in Plumbing is a two-year (2400hours) training programme offered full-time to secondary five (S5) school leavers and learners from School of Advanced Level (SALs) as well as from another professional centre. This is equivalent to four (4) semesters. Two semesters represents one academic year. The same programme is also offered on part-time to learners already in employment over 6 semesters. Learners on the part-time come to SIT for lectures 1 1/2 days per week.

A learner on full time may exit after year and qualify for the Certificate after successfully completing all the units from semesters one and two and accumulated 120 credits.

### Entry Criteria

Learners wishing to apply for the Advanced Certificate in Plumbing must have attained a minimum grade of “G” from the **IGCSE exam** in English, Mathematics and Combined Science or preferably Physics.

Applicants from another professional centre may be accepted exiting with a Certificate from that Institution.

### Learners should be able to:

- ⇒ Demonstrate an in-depth knowledge of the installation, commissioning and maintenance procedures used in the trade of plumbing.
  - ⇒ Demonstrate comprehensive range of specialised plumbing skills using all commonly used plumbing hand and power tools in compliance with all relevant health and safety legislation and best practice.
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### Career Opportunities in the Plumbing Industry

Career Opportunities in the Plumbing Industry. Plumbers are employed to fix leaks or install lavatory appliances, bath tubs, and toiletories amongst others. Plumbers can also work as , pipefitters, pipelayers for water or gas distribution. They install and perform work on various pipe systems, from water treatment plants that service entire towns to homes and high rise buildings

Job prospect for those entering this industry are projected to be excellent. The building and construction industry engaged

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 plumbing industry include plumber in the Hotel industry, plumber with contractors, self-employed plumber, water pipe laying technicians and or work in the sewage sector at PUC and others,

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### Assessment Technique (s) including weighting (s)

The Advanced 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                    | - <b>P</b>               | -55%-69%  |
| Credit or Merit         | - <b>M</b> or <b>C</b> - | 70% - 84% |
| Distinction             | - <b>D</b>               | - 85%+    |

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- ⇒ Exercise appropriate judgement in planning, diagnostics and delivering all services, installations and maintenance processes relating to the plumbing , water distribution pipe laying, sewage trade as well as solar water heating and rain water harvesting .
- ⇒ Transfer and apply theoretical understanding and technical know-how to inspect, diagnose faults, maintain and repair piping systems in a wide variety of domestic and commercial contexts.
- ⇒ Exercise substantial independence in the workplace, taking responsibility for plumbing duties performed by others and interacting with a variety of individuals and groups to Include customers, colleagues and suppliers.  
  
Take initiative to identify and address self-development and training needs in both an employment and structured training environment
- ⇒ Determine the function and role of the plumber in society to include an awareness of energy conservation and other relevant ecological concerns

### Certification

To be awarded certificate in Advanced Certificate in Plumbing, 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 Advanced Certificate is 240 Credits .

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### Structure of the Programme for: (4 semesters) for Full-time learners

| Semester 1   | Semester 2   | Semester 3   | Semester 4  |
|--|--|--|---|
| Health, Safety and Security Procedures (30/15)                                 | Installation of Gutters (20/10)  | Pipe layout (40/40)  | Water Main Installation (40/40)   |
| Plumber's Occupation in the context of Seychelles (20/10)                      | Above Ground drainage (60/30)  | Sanitation and drainage system (40/40)   | Solar Water heating (40/20)   |
| Tools and Equipment (30/15)  | Electricity (20/10)  | Plumbing System installation planning (40/20)                                    | Hot water and water heating (40/20)   |
| Pipes and fittings (60/30)   | Below ground drainage (60/30)  | Plumbing Trade Calculations (40/20)  |   |
| English (20/10)  | Domestic hot water supply (30/30)  | Complex Cold Water Systems (40/40)   | Sewage disposal and Below drainage systems (60/30)                              |
| Domestic cold water supply (30/15)   |  |  |   |
| Sanitary Appliances (30/15)  | Applied Science. (20/10)   |  |   |
|  | ICT (20/10)  |  |   |
| Mathematics (20/10)  |  |  |   |
| Technical Drawing (20/10)  | Technical Drawing (20/10)  | Primary skills in Technical Drawing (20/10)                                      | Technical Drawing related to the construction industry (20/10)                  |
| Work Based Experience (W.B.E rotation 1) (210)                                 | Work Based Experience (W.B.E rotation 2) (210)                                 | Work Based Experience (W.B.E rotation 3) (210)                                   | Work Based Experience (W.B.E rotation 4) (280)                                  |
| <b>Semester one:</b><br>240/150 (390)<br>Notional Hours<br>(240+150+210) = 600 | <b>Semester two:</b><br>250/140 (390)<br>Notional Hours<br>(250+140+210) = 600 | <b>Semester three:</b><br>220/170 (390)<br>Notional Hours<br>(210+180+210) = 600 | <b>Semester four:</b><br>200/120 (320)<br>Notional Hours<br>(200+120+280) = 600 |
| <b>Total number of hours for the year 1 of program: 1200</b>                   |  | <b>Total number of hours for year 2 of program: 1200</b>                         |   |

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|   |   |                                |     |
|---|---|--------------------------------|-----|
| 15. Used English in the context of Plumbing   | English   | 1                              |     |
| 16. Used ICT in the context of Plumbing   | ICT   | 2                              |     |
| 19. Demonstrate knowledge and skills in Pipe layout   | Pipe layout   | 3                              |     |
| 20. Apply principles and practice of cold water systems   | Complex Cold Water Supply                               | 3                              |     |
| 21. Apply principles and practice of hot water and heating systems                                  | Hot water and heating systems                           | 3                              |     |
| 22. Apply principles of renewable energy  | Solar Water Heating                                     | 4                              |     |
| 23. Demonstrate knowledge of sanitation systems   | Sanitation and drainage system                          | 3                              |     |
| 24. Apply principles Plumbing system installation planning  | Planning plumbing system in building                    | 3                              |     |
| 25. Apply principles and practices of Sewage disposal and below drainage system                     | Sewage Disposal and below drainage system               | 4                              |     |
| 26. Apply principles and practices of Plumbing Calculations   | Plumbing Trade Calculations                             | 3                              |     |
| 27. Demonstrate knowledge and skill in water main installation                                      | Water main installation                                 | 3                              |     |
| 28. Apply primary skills in Technical Drawing   | Primary skills in Technical Drawing                     | 3                              |     |
| 29. Apply skills of Technical Drawing related to the construction industry                          | Technical Drawing related to the construction industry. | 4                              |     |
| 30. Demonstrate knowledge and skills relevant to Carpentry and Joinery during work based-experience | Work Based Experience (WBE)                             | 1,2,3,4,                       |     |
|   |   | <b>Total number of credits</b> | 240 |



# Train to become a plumber



the  
**plumbing**  
**Works**

