Seychelles Institute of Technology (SIT)
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INFORMATION FOR S5 SCHOOL LEAVERS

INTRODUCTION

The Seychelles Institute of Technology (SIT) is a post-secondary Technical and Vocational Education and Training (TVET) institution. SIT has the mandate to offer training programmes in Engineering and Built environment from level 3 to level 6, ie. Certificate, Advanced Certificate, Diploma and Advanced Diploma as featured on the National Qualification Framework (NQF).

All training programmes are competency based approach (CBA) with emphasis put in skills acquisition, especially on the Certificate and Advanced Certificate Programmes.

Full Time Training Programmes on Offer at Certificate level

The certificate programmes are to provide students with the necessary practical skills for work in their selected field under close supervision. The programmes are of 1200 hours (one year duration) for fulltime programmes and 1800 hours (18 months duration) for apprenticeship mode of training. Work Based Experience (WBE) is a compulsory component on the programme, where students are attached with a relevant work-related organisation or business company on a rotational basis.

Each of the certificate and advanced certificate programmes consists of a number of units. To be successful and qualify for a certificate, a student must achieve a minimum final mark of 55% on every unit including WBE.

A student will be given one opportunity to re-sit each final unit assessment he/she failed during the semester. A second re-sit counted as last re-sit attempt may be given if there is evidence of improvement over the previous attempt. Students must pass with the minimum 55% for every re-sit of unit assessment

The training programmes at Certificate level are;

- Certificate in Electrical Installation
- Certificate in Painting & Decorating
- Certificate in Plumbing
- Certificate in Refrigeration

Part-Time-Apprenticeship Training Scheme

- Certificate in Carpentry
- Certificate in Masonry

Units on the Certificate Level Programmes

Certificate in Electrical Installation

Semester 1
Health, Safety and Security Procedures
Science
Tools, equipment and instruments
Electrical Installation Occupation in the context of Seychelles
Material and Components
Electrical Fundamentals
Electrical Wiring and Regulations
English
Mathematics
Technical Drawing 1
Work Based Experience (W.B.E rotation 1)

Semester 2
Information & Information Technology (ICT)
Electrical Applications
Electrical Servicing
Electrical Distribution 1
Fastening and Joining
Electrical Installation
Electric Motors and Controls
Technical Drawing 2
Work Based Experience (W.B.E rotation 2)

Certificate in Painting & Decorating

Semester 1
Health, Safety and Security Procedures
Tools, equipment and instruments 1
Materials
Painter and Decorator Occupation in the context of Seychelles
Surface Preparation (1)
Plain Painting (1)
English
Mathematics
Technical Drawing (1)
Work Based Experience (W.B.E rotation 1)

Semester 2
Information & Communication Technology (ICT)
Decorative Painting
Colour Scheme
Ladders and Scaffolding
Surface Preparation (2)
Plain Painting (2)
Technical Drawing (2)
Work Based Experience (W.B.E rotation 2)

Certificate in Plumbing

Semester 1
Health, Safety and Security Procedures
Plumber's Occupation in the context of Seychelles
Tools, Instrument and Equipment
Water Supply and Distribution Systems
Electricity
English
Mathematics
Technical Drawing (1)
Work Based Experience (W.B.E rotation 1)

Semester 2
Drainage systems
Designing and Installing Plumbing Systems
Sanitary Appliances
Sewage Systems
Hot Water Systems
Valves and Faucets
Information & Communication Technology (ICT)
Technical Drawing (2)
Work Based Experience (W.B.E rotation 2)

Certificate in Refrigeration & Air Conditioning

Semester 1
Health, Safety and Security Procedures
Refrigeration and Air conditioning Mechanics
Engineering Tools, Instrument and Materials
Fundamentals of Refrigeration
Refrigeration Systems and Applications
Refrigerants and Lubricants
Electricity
English
Mathematics
Technical Drawing (1)
Work Based Experience (W.B.E rotation 1)

Semester 2
Electrical Motors
Circuit Diagrams
Room Split Air conditioners
Troubleshooting and Servicing
Accessories, Auxiliaries and Controls
Information & Communication Technology (ICT
Technical Drawing (2)
Work Based Experience (W.B.E rotation 2)

Advanced Certificate Programmes

The Advanced Certificate programmes are to provide students with necessary knowledge of the practice and the technique required to perform proficiently in the area of specialization under lesser degree of supervision. The programmes are of 2400 hours (two years duration). To be promoted to second year where the programme on offer is an advanced certificate level, the student must pass every unit including WBE, with the minimum final mark of 55% at the least, and should also achieve an overall average of 65% or above, to be promoted to the second year of the advanced certificate level.

Units on the Certificate Level Programmes

Advanced Certificate in Carpentry & Joinery

Semester 1
Health, Safety and Security Procedures
Tools, Instrument and Equipment (1)
Carpenter and Joiner Occupation in the context of Seychelles
Materials
Wood Joints 1
Furniture 1
Wood Surface Treatment
English
Mathematics 1
Technical Drawing 1
Work Based Experience (W.B.E rotation 1)

Semester 2
Tools, Instrument and Equipment (2)
Wood Machining (1)
Electricity
Door Making (1)
Timber Frames
Ironmongery
Information & Communication Technology (ICT)
Technical Drawing 2
Work Based Experience (W.B.E rotation 2)

Semester 3
Maintenance of Machineries
Door Making 2
Formwork
Mathematics 2
Technical Drawing 3
Work Based Experience (W.B.E rotation 3)

Semester 4
Wood Machining 2
Furniture 2
Timber Roof
Timber Floors
Technical Drawing 4
Work Based Experience (W.B.E rotation 4)

Advanced Certificate in Electrical & Electronic Engineering

Semester 1
Health, Safety and Security Procedures
Science
Tools, equipment and instruments
Electrical & Electronic Occupation in the context of Seychelles
Electrical Fundamentals
Electrical Circuits
Electronics Components
English
Mathematics (1)
Technical Drawing 1
Work Based Experience (W.B.E rotation 1)

Semester 2
Electrical & Electronic Application (1)
Electronic Signals
Digital Electronics
A.C and D.C Supplies (1)
Electrical & Electronics Servicing (1)
Electric Motors (1)
Information & Communication Technology (ICT)
Work Based Experience (W.B.E rotation 2)

Semester 3
Electrical & Electronic Application (2)
Measurement & Instrumentation
Digital Electronics (2)

Semester 4
Telecommunication
Digital Electronics (3)
Computer Technology

A.C and D.C Supplies (2)
Electronics Fundamental
Electrical & Electronics Servicing (2)
Electric Motors (2)
Mathematics (2)
Technical Drawing 2
Work Based Experience (W.B.E rotation 3)

Electrical & Electronics Servicing (3)
Work Based Experience (W.B.E rotation 4)

Advanced Certificate in Masonry

Semester 1
Health, Safety and Security Procedures
Tools, Instrument and Equipment
Materials
Mason Occupation in the context of Seychelles
Block/Brick Wall Construction (1)
English
Mathematics 1
Technical Drawing 1
Work Based Experience (W.B.E rotation 1)

Semester 2
Block Making
Opening in Walls
Machinery in Construction
Block/Brick Wall Construction (2)
Rendering and Plastering (1)
Pavement Construction (1)
Concreting (1)
Technical Drawing 2
Information & Communication Technology (ICT)
Work Based Experience (W.B.E rotation 2)

Semester 3
Stone Masonry (1)
Tiling (1)
Block/Brick Wall Construction (3)
Rendering and Plastering (2)
Rendering and Plastering (2)
Concreting (2)
Setting out of Small Buildings (1)
Mathematics (2)
Technical Drawing (3
Work Based Experience (W.B.E rotation 3)

Semester 4
Stone Masonry (2)
Tiling (2)
Block/Brick Wall Construction (4)
Rendering and Plastering (3)
Resource Management
Formwork Construction
Setting out of Small Buildings (2)
Technical Drawing (4)
Work Based Experience (W.B.E rotation 4)

Advanced Certificate in Mechanical Engineering

Semester 1
Health, Safety and Security Procedures
Engineering Materials & Science (1)
Engineering Tools, Instrument and Materials
Arc Welding (1)
Mechanical Engineer's occupation in the context of Seychelles
Electricity
Mathematics (1)
Technical Drawing (1)
Work Based Experience (W.B.E rotation 1)

Semester 2
Engineering Materials & Science (2)
Sheet Metal Work (1)
Gas Welding (1)
Power Tools
Machining & Fittings (1)
Technical Drawing (2)
Information & Communication Technology (ICT)
Work Based Experience (W.B.E rotation 2)

Semester 3
Engineering Materials & Science (2)
Sheet Metal work (2)
Arc Welding (2)
Gas Welding (2)
Electrical & Electronics
Machining & Fittings (2)
Mathematics (2)
Technical Drawing (3)
Work Based Experience (W.B.E rotation 3)

Semester 4
Arc Welding (3)
Gas Welding (3)
Plant Maintenance
Machining & Fittings (3)
Technical Drawing (4)
Work Based Experience (W.B.E rotation 4

Advanced Certificate in Motor Vehicle Mechanics

Semester 1
Health, Safety and Security Procedures
Measurement & Instrumentation
Tools & Equipment 1
Motor Vehicle Mechanic's Occupation
Engine System (1)
Chassis System (1)
Science
Mathematics (1)
Technical Drawing (1)
Work Based Experience (W.B.E rotation 1)

Semester 2
Fastening & Joining
Electrical Fundamental
Engine Systems (2)
Chassis Systems (2)
Vehicle Electrical (2)
Technical Drawing (2)
Information & Communication Technology (ICT)
Work Based Experience (W.B.E rotation 2)

Semester 3
Tools & Equipment (2)
Electronics Fundamental
Engine Systems (3)
Chassis Systems (3)
Vehicle Electrical (3)
Mathematics (2)
Technical Drawing (3)
Work Based Experience (W.B.E rotation 3)

Semester 4
Vehicle Electronics Applications
Engine Systems (4)
Chassis Systems (4)
Vehicle Electrical (4)
Technical Drawing (4)
Work Based Experience (W.B.E rotation 4)

Entry Criteria Certificate and Advanced Certificates Programmes

For advanced certificate programmes, the entry criteria to year one is similar to that of the certificate i.e. applicants must have completed S5 education and have attained a pass in Mathematics, Science and English from the S5 National Exams and a record of Achievement (ROA) that indicates a proven aptitude and interest in the training applied for. S5 students who have successfully completed the TVET programmes are also eligible to apply for the different Programmes both at Certificate and Advanced Certificate levels. Promotion to year two is based on the performance results of a student after completing year one. Only those students enrolled on the advanced certificate, who have passed all the required units and obtained an overall average mark of 65% or above will be promoted to year two of the programme.

Technician Diploma Programmes

The aims of Technician Diploma programmes are to provide students with solid technical principles in technology and applied science. The Technician Diploma programmes are of 3600 hours (three years duration). Year one of the programmes is structured such that students are able to acquire basic skills in engineering and in building services. In year two and year three students then follow between one and two modules towards the Technician Diploma and sit for the City and Guilds examinations at the end of every semester upon completion of the modules.

For City & Guilds Technician Diploma courses, applicants should have IGCSE Ordinary Level with a "C" pass or above in Mathematics, Science and English as a Second Language or equivalent qualifications.

Technician Diploma Programmes

City & Guilds Technician Diploma in Construction Industry (6165 C&G)

- Basic Construction Skills- Principles
- Construction Technician 1- Principles
- Core Skills -Principles
- Applied Scientific Techniques - Principles
- Drawing and Surveying - Principles
- Design for Construction - Principles
- Construction Mathematics - Principles
- Measurement - Principles
- Structural Mechanics - Principles
- Environmental Science - Principles

City & Guilds Technician Diploma in Mechanical & Electrical Engineering (2850 C&G)

Compulsory Modules

- Engineering Health and Safety
- Engineering Principles

Plus

- Principles of Engineering Maintenance, Installation and Commissioning or
- Principles of Mechanical Manufacturing Engineering or/and
- Principles of Electrical and Electronic Engineering

City & Guilds Technician Diploma in Motor Vehicle Systems (3905 C&G)

Maths, Science and Communications

- Chassis Systems 1, 2 & 3
- Engine Systems 1, 2 & 3
- Maths, Science and Electronics 1 & 2
- Vehicle Systems Practical 1 & 2

City & Guilds Technician Diploma in Telecommunication Systems (2730 C&G)

- Communication Systems
- Digital Networks 1,2 & 3
- Fundamentals of Electronic Communications 1,2 & 3
- Programme Principles
- Mathematics
- Advanced Mathematics
- Radio Systems

CERTIFICATION

Seychelles Institute of Technology awards Certificate of Competences to successful candidates on the Certificate and Advanced Certificate programmes. The City & Guilds International awards Technician Diplomas to successful candidates on the Diploma programmes.

CAREER OPPORTUNITIES AND FURTHER STUDIES

Good opportunities exist for graduates to work in the construction and engineering industry. Holders of Diplomas follow the Advanced Diploma programmes on a part-time basis whilst in employment.

Full scholarships are available for higher education in overseas countries for those who hold both a Diploma and an Advanced Diploma with high grades (credit pass or above). Further details can be obtained from the Agency for National Human Resources Development (ANHRD).

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Note:
The programmes are subjected to revision to meet the changing need of industry and the requirements of Seychelles Qualification Authority.