



CARIBBEAN EXAMINATIONS COUNCIL

CAPE[®] Electrical and Electronic Technology

SYLLABUS
SUBJECT REPORTS

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SYLLABUS EXTRACT

Electrical and Electronic Technology

Electrical and Electronic Engineering Technology is a programme of study that offers knowledge and skills for work and lifelong learning in various engineering and technology fields. Electrical and electronics engineers manipulate electricity and use it to design and manufacture products that transmit power or process information. The syllabus, therefore, offers broad-based competencies in an appropriate combination of interdisciplinary processes, evidence-based delivery and assessment and employability skills in a world of school and work training environment.

The syllabus facilitates articulation with the field of study provided by post-secondary and tertiary institutions. It is appropriate for students aspiring to careers and employment as electrical and electronics technicians, electrical and electronic engineers, repair specialists, electronics tester, design and system engineers, inspectors, utility workers and service technicians. The competencies align with the philosophical foundation for education in the region and international best practices.

The syllabus consists of two Units, each containing three Modules.

UNIT 1: FUNDAMENTALS OF ELECTRICITY AND ELECTRONICS

- Module 1 – Occupational Safety, Health and Environmental Practices
- Module 2 – Electrical and Electronic Related Studies
- Module 3 – Introduction to Circuit Technology and Devices

UNIT 2: APPLIED THEORY IN ELECTRICAL AND ELECTRONIC ENGINEERING TECHNOLOGY

Unit 2, comprises **TWO** Options each consisting of three Modules. Students are required to choose **ONE** of the **TWO** Options in Unit 2.

OPTION A: ELECTRONIC ENGINEERING TECHNOLOGY

- Module 1 – Communication Engineering

- Module 2 – Analogue and Digital Electronics
- Module 3 – Control Systems

OPTION B: ELECTRICAL ENGINEERING TECHNOLOGY

- Module 1 – Power Machines and Systems
- Module 2 – Introduction to Renewable Energy Systems
- Module 3 – Power Generation Engineering



**CARIBBEAN
EXAMINATIONS
COUNCIL**

**Caribbean Advanced
Proficiency Examination®**

SYLLABUS

ELECTRICAL AND ELECTRONIC ENGINEERING TECHNOLOGY

CXC A12/U2/16

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