



Cambridge
Technical College

DIPLOMA OF PETROLEUM ENGINEERING

Program Overview

Study Duration: 9 Months (Full-Time / Part-Time Options Available)

Delivery Mode: On-Campus / Online / Blended

Accreditation: Recognized by local and international bodies

Program Description:

The 9-Month Diploma in Petroleum Engineering provides intensive training in the core principles and practical applications of petroleum engineering. Designed for individuals seeking rapid entry into the oil and gas industry, the program emphasizes real-world skills in drilling, reservoir management, production systems, and health & safety.

Program Objectives:

- Graduates of this diploma will be equipped to:
- Understand the fundamental principles of petroleum exploration and production
- Assist in planning and supervising drilling and well-completion operations
- Analyze reservoir behavior and optimize production techniques
- Apply safety standards and environmental protection protocols
- Operate industry-relevant tools and software



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Key Modules:

- 1. Fundamentals of Petroleum Engineering**
- 2. Petroleum Geology and Reservoir Studies**
- 3. Drilling Technology and Well Operations**
- 4. Production Engineering and Surface Facilities**
- 5. Petroleum Economics and Project Planning**
- 6. Oil & Gas Safety and Environmental Management**
- 7. Practical Field Applications / Case Studies**

Career Pathways:

-Graduates can pursue entry- to mid-level positions in:

-Petroleum and Natural Gas Companies

-Drilling and Well Services

-Oilfield Services and Logistics

-Production Operations

-Health, Safety, and Environment (HSE) Departments

-Government or Regulatory Agencies (Energy Sector)

Program	Diploma of Petroleum Engineering
Credit Hours	72 Credits
Duration	Academic Year (12 Months)

DIPLOMA OF PETROLEUM ENGINEERING		
SUBJECT	CODE	CREDIT HOURS
ENGLISH LANGUAGE 101	EN101	3
COMPUTER SKILLS	CS101	3
CHEMISTRY	PA110	3
GEOLOGY	PE101	3
PETROLEUM GEOLOGY	PE102	3
IWCF PRINCIPLE AND PROCEDURE	PE103	3
WELL TESTING	PE104	6
PETROLEUM PRODUCTION	PE105	3
ENGLISH LANGUAGE 102	EN102	3
DRILLING FLUIDS	PE106	6
DRILLING ENGINEERING (1)	PE107	3
HYDRAULIC MACHINERY	PE108	6
SAFETY (1)	PS101	3
DRILLING ENGINEERING (2)	PE109	3
SAFETY (2)	PS102	3
PRACTICAL TRAINING	PE110	18