

**The National Polytechnic Institute
of
Papua New Guinea**

Department of Mechanical Engineering

Technical Training Certificate in Metal Trades

For further information contact:

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*“Enroll at National Polytechnic Institute of PNG for a brighter
future”*

DEPARTMENT OF MECHANICAL ENGINEERING

Objectives:

The department seeks to attain technical competence in Mechanical Engineering, cultivate personal attitudes conducive to continual growth and provide a strong motivation to apply engineering solutions to human development problems.

Course Offered:

TECHNICAL TRAINING CERTIFICATE IN METAL TRADES

Objectives:

The course is designed to provide graduates with:

- Basic theoretical knowledge in maintenance fitting, machining, welding and fabrication technologies.
- Hands-on practical experience with Workshop machines related to fitting, machining, welding and fabrication.
- Knowledge in Computing, Mathematics, Science, Technical Drawing and Communication Skills.

Entry Requirements:

- Grade 12 with C grade in Maths and Physics and C grade average in English and Chemistry or relevant trade certificates.

Grade 12 applicants may be given exemptions on subjects already studied.

Course Duration:

The course consists of two(2) years of forty(40) weeks full time attendance in the institute over two consecutive years.

Certification:

Each student who successfully completed the course will be awarded **Technical Training Certificate in Metal Trades.**

Course Outline:

Year One:	Hrs/Wk	Credit
Mathematics I	4	8
Communication Skills I	2	4
Physical Science I	2	4
Technical Drawing I	2	4
Basic Computing	2	4
Maintenance Fitting & Machining Theory	3	6
Metal fabrication & Welding Theory	3	6
Maintenance Fitting & Machining Practical	6	12
Metal Fabrication & Welding Practical	6	12

TOTAL	30 hrs	60 credits
Year Two:	Hrs/Wk	Credits
Applied Mathematics	4	8
Communication Skills II	2	4
Applied Science	2	4
Technical Drawing II	2	4
Business Management	2	4
Maintenance Fitting & Machining Theory	3	6
Metal Fabrication & Welding Theory	3	6
Maintenance Fitting & Machining Practical	6	12
Metal Fabrication & Welding Practical	6	12
TOTAL	30 hrs	60 credits

TTC TEACHERS:

Kusunan Kiapin

Head of TTC Section MFM

Assessor

DipME (LTC)

DipTeaching-Tech

CHTE-ME (LTC)

MFM Trade Certificate

Trade Test Assessor

Joe Ponau

Head-MFWSection

Diploma Teaching-Tech.

MFW Trade Certificate

Trade Test Assessor

Murphy Jaggie

MFM Section

DipTeaching-Tech

MFM Trade Certificate

Gilmore C. Sarmiento

MAEd (HC, Philippines)

BSIED (BNSAT, Philippines)

BPSTA

Fellowship Training (HIE, Aust.)

Josiah Gwango

DipTeaching-Tech

MFW Trade Certificate

Trade Test Assessor

Farisa Hippara

Dip Teaching-Tech.

Advanced Teaching Methodology

MFW Trade Certificate

Trade Test

A BRIEF HISTORY OF THE FIRST POLYTECHNIC INSTITUTE IN PAPUA NEW GUINEA

THE National Polytechnic Institute of Papua New Guinea (*NPiPNG* or *Polytec PNG* for short) was officially launched on 2nd December 2009 with the Governor General, Sir Paulias Matane, making the official declaration and unveiling of the commemoration plaque.

_____The National Polytechnic Institute was legally established in 2008 by the National Education Board acting under its authority as provided by Education Act 1983. On August 2008 a fact-finding team of five was sent to New Zealand to study the organizational structure set up, operation and management, and academic programs of selected polytechnics and institutes of technology. The team consists of acting TVET assistant secretary Mr. Jayasundra J. Banda, as team leader, the late principal—Mr. Mathew Piruruho, deputy principal—Mr. Lawrence Parry, and two department heads—Mr. Joselito Marcos and Mrs. Rosa Manua,

_____Upon its return the team presented their findings and recommendations in a comprehensive report to the governing council. The report was well received by the governing council that created the Polytechnic Committee. The committee was tasked, in 2009, to carry out year-long activities—ranging from formulation of new vision and mission statements, strategic and management plans, policies and procedures on student affairs, governance and management, finance, and human resource development to academic matters among others—culminating into the official launching of the first polytechnic institute on the day before the 55th and last graduation rite of the former Lae Technical College.

_____The National Department of Education established the National Polytechnic Institute as the first of four polytechnics envisioned to be created in each of the four regions of the country. The conversion from being a technical and a business college to a polytechnic institute was realized through the initiative of Technical Vocational Education and Training division, and was spearheaded by the college's governing council and administration together with its six academic departments.

_____The former Lae Technical College was established in 1953 at the location where Busu High School is presently situated. In 1954, it was relocated to its present site with initially one administration block, two workshop units, one dining hall, and one toilet block.

_____Various changes and improvements had taken place in the school in terms of infrastructure, academic programs, and personnel. Like any organizations, the college encountered a number of difficulties and problems but with the able assistance of the governing council, school authorities, stakeholders and the community, it has survived all the odds.

_____With strong commitment from and undying faith of all stakeholders, it is envisioned that the institute will produce useful citizens equipped with life-long skills and knowledge that they can use in their quest for personal success and contribute to the progress and prosperity of this nation.

MISSION STATEMENT

WE are a government educational institution committed to develop individuals in various life skills through quality and relevant educational programs that meet business, industry and community needs for sustainable national progress.

VISION STATEMENT

WE are a prime institution for growth, excellence and prosperity through quality education and training.