

Programme Name	Certificate III in Plant Maintenance Engineering
Programme Description	<p>This course aims to meet the needs of students who have a general interest in industrial technology trades as well as those intending to choose a career pathway into traditional Plant Maintenance Engineering trades and related service industries.</p> <p>Fiji is currently experiencing a skills shortage in traditional Plant Maintenance Engineering trade areas. There is also an increasing demand in Fiji and elsewhere for people able to assume highly skilled roles in areas deploying rapidly developing technologies. There is a need for more highly trained new workers and up-skilling of existing workers in the manufacturing and service industries as the levels of newer technologies are increased. For example, there are vastly more complex electronics systems to be fitted and serviced in the Plant industry and new materials and techniques in the building industry. Everybody is affected to some degree by the need to understand and effectively use advancing technology in the Industries and power plants, workshop, the construction site, the factory, office, home or farm.</p> <p>This course provides opportunities for students to develop relevant technical, vocational and interpersonal competencies suitable for employment and further training. They can also develop skills, knowledge and experiences - such as teamwork, communication and occupational health and safety- that are transferable to other industries.</p> <p>In this course, you can study either full-time 1 year 3 months, or part-time until completion, mainly day classes. Night classes maybe scheduled, particularly for part-time students. You will learn Engineering skills & concepts both technical and practical in classroom delivered units in Samabula CEST Campuses (Hands tools, Lathe machines grinding machines, pressing machines, , Electrical, pumps, power transmission devices, hydraulic and pneumatic plant, lifting material Handling, Diesel and Petrol engines, etc., at the engine rooms, boiler rooms and workshops).</p> <p>You will be introduced to various types of bearings, bearing number codes and suffixes, bearing hot and cold installations and alignment on shafts. Bearing clearances, types of fits and coupling alignment.</p> <p>You will be introduced to Engineering mathematics, Applied science and scientific principles, materials and study simple Electrical, Hydraulic & Pneumatic Circuits. Students will learn to apply 2D Computer-aided drafting (CAD) techniques, Solid works, You will gain the skills to work in the mechanical and/or Plant industries as an operator, trades men, technical officer or engineering assistant within small, medium and large enterprises.</p>
Majors	Maintenance
Minimum Requirements	<p>For Certificate III the entry requirements are as follows:</p> <p>(a) Successful Completion of Year 11 or Form 5.</p> <p>(b) Matured applicants with less than the above requirements but at least some industrial experience can be considered.</p> <p>(c) Graduates of Certificate II in any Engineering field from a registered institute in FHEC accredited National Certificates.</p>
Duration	3 Quarters + 6 months Industrial Attachment =1 year 3 months

Programme Type	Certificate
College Name	COLLEGE OF ENGINEERING, SCIENCE & TECHNOLOGY
Campus	Samabula
Credit Points	90

CERTIFICATE III PLANT MAINTENANCE ENGINEERING

	Code	Unit name	Pre-requisites	Lecture Hrs	Tutorial Hrs	Workshop Practical	Self-directed	Timetable Hrs/Block	Learning Hrs/Block	Credit
Quarter 1										
1	COM303	Introduction to Communication Literacy	Current MER	4	2	0	8	42	50	5
2	MEN306	Applied Materials	Current MER	2	1	3	8	42	50	5
3	PME311	Basic Machining	Current MER	1	0	5	8	42	50	5
4	PME312	Basic Craft and Metal work	Current MER	1	0	5	8	42	50	5
5	PME313	Workshop Calculation A	Current MER	4	2	0	8	42	50	5
6	MEN303	Trade Drawing A	Current MER	1	0	5	8	42	50	5
TOTALS PER BLOCK				13	5	18	48	252	300	30
		Total contact hours per week				36				

	Code	Unit name	Pre-requisites	Lecture Hrs	Tutorial Hrs	Workshop Practical	Self-directed Learning Hrs	Timetable Hrs/Block	Learning Hrs/Block	Credit value
Quarter 2										
6	ETH301	Ethic, Values & Governance.	Current MER	4	2	0	8	42	50	5
2	PME315	Lifting & Material Handling	Current MER	1	1	4	8	42	50	5
3	MEN302	Welding Process and Practice	Current MER	1	0	5	8	42	50	5
5	PME314	Workshop Calculation B	PME313	4	2	0	8	42	50	5
5	PME316	Workshop Science A	Current MER	2	1	3	8	42	50	5
6	OHS301	Occupational Health and Safety	Current MER	4	2	0	8	42	50	5
TOTALS PER BLOCK				16	8	12	48	252	300	30
		Total contact hours per week				36				

	Code	Unit name	Pre-requisites	Lecture Hrs	Tutorial Hrs	Workshop Practical	Self-directed Learning Hrs	Timetable Hrs/Penster	Learning Hrs/penster	Credit value
Quarter 3										
1	PME318	Small Engines	Current MER	2	0	4	8	42	50	5
1	PME301	Electro Plant	Current MER	2	1	3	8	42	50	5
3	PME319	Basic Hydraulics and Pneumatics	Current MER	2	0	4	8	42	50	5
4	PME302	Introduction to Bearings	Current MER	2	0	4	8	42	50	5
5	PME317	Workshop Science B	PME316	2	1	3	8	42	50	5
4	PME303	Basics of Computer Aided Design (CAD)	MEN303	1	0	5	8	42	50	5

TOTALS PER BLOCK			11	2	23	48	252	300	30
	Total contact hours per week				36				

	Program Totals				108	144	756	900	90
	Total contact hours				108				