

CERTIFICATE IV IN MANUFACTURING ENGINEERING

	Code	Unit name	Pre-requisites	Lecture Hrs	Tutorial Hrs	Workshop Practical	Self-directed Learning Hrs/Block	Timetable Hrs/Block	Learning Hrs/Block	Credit value
Stage 1										
1	<u>COM201</u>	Technical Communications (E)	Complete Year 12	2	2	0	12	28	40	4
2	<u>PME311</u>	Basic Machining (E)	Complete Year 12	2	0	6	0	56	56	6
3	<u>PME312</u>	Basic Craft and Metal work	Complete Year 12	2	0	6	0	56	56	6
4	<u>MET304</u>	Workshop calculation (E)	Complete Year 12	4	2	0	0	42	42	4
5	<u>CIN301</u>	Computers use and applications	Complete Year 12	1	0	5	0	42	42	4
TOTALS PER BLOCK				11	4	17	12	224	236	24
Total contact hours per week						32				

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Stage 2										
1	<u>PME321</u>	Bearing, Lubrication, Filters, and Seals (E)	Complete Year 12	2	1	6	0	63	63	6
2	<u>MET305</u>	Workshop Science (E)	Complete Year 12	2	1	3	0	42	42	4
3	<u>MET303</u>	Trade Drawing A	Complete Year 12	2	0	4	0	42	42	4
4	<u>PMM322</u>	Manufacturing Processes	Complete Year 12	2	2	4	0	56	56	6

5	<u>ETH301</u>	Fundamentals of Ethical Practices.	Complete Year 12	2	1	0	19	21	40	4
TOTALS PER BLOCK				10	5	17	19	224	243	24
		Total contact hours per week				32				

	Code	Unit name	Pre-requisites	Lecture Hrs	Tutorial Hrs	Workshop Practrical	Self-directed Learning Hrs	Timetable Hrs/Block	Learning Hrs/Block	Credit value
Stage 3										
1	<u>PMM431</u>	Lean Engineering Techniques	MET305	2	1	5	0	56	56	6
2	<u>MET308</u>	Electrical Principles (E)	MET305	2	1	6	0	63	63	6
3	<u>PMM432</u>	Maintenance Management	Complete Year 12	2	1	3	0	42	42	4
4	<u>MET418</u>	Computer Aided Design (CAD)	MET303	2	0	4	0	42	42	4
5	<u>OHS401</u>	Occupational Health and Safety	Complete Year 12	3	1	0	12	28	40	4
TOTALS PER BLOCK				11	4	18	12	231	243	24
		Total contact hours per week				33				

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Stage 4										
1	<u>PME441</u>	Power Transmission (E)	MET305	2	1	4	0	49	49	5
2	<u>PME442</u>	Hydraulics and Pneumatics I (E)	MET305	2	1	5	0	56	56	6
3	<u>PME443</u>	Lifting & Material Handling	Complete Year 12	2	1	3	0	42	42	4
5	<u>PME444</u>	Industrial Instrumentation	MET308	2	0	4	0	42	42	4
4	<u>ACR 420</u>	Air Conditioning system (E)	MET308	2	1	4	0	49	49	5
TOTALS PER BLOCK				10	4	20	0	238	238	24
		Total contact hours per week				34				

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	Stage 5									
1	<u>PMM451</u>	Condition Monitoring	Complete Year 12	2	1	3	0	42	42	4
2	<u>PMM452</u>	Hydraulics & Pneumatics II (E)	PME442	2	1	5	0	56	56	6
3	<u>PMM453</u>	Introduction to solid works (E)	MET418	0	0	6	0	42	42	4
4	<u>PME454</u>	Introduction to Supevisory Controll and Data Acquisition	MET308	2	0	4	0	42	42	4
5	<u>PME455</u>	Programmable Logic Controller (PLC)	MET308	2	0	6	0	56	56	6
TOTALS PER BLOCK				8	2	24	0	238	238	24
		Total contact hours per week				34				
		Program Totals		50	19	96	43	1155	1198	120
		Total contact hours				165				