

MEM50222 – Diploma of Engineering - Technical

This qualification consists of **5 core** and **15 elective** competencies. You are required to complete all five (5) core units, a minimum of four (4) to a maximum of eight (8) Group A elective units, and a minimum of seven (7) Group B elective units. On successful completion of all **20 units**, you will receive a **Diploma of Engineering - Technical**. *Students should **NOT** enrol in to more than one unit at a time, unless otherwise advised.* For distance enrolments, you will have up to six months to complete each unit from the date of enrolment. For On Campus enrolments; either 15 weeks, or 25 weeks per unit.

POS (Preferred Order of Study) - The first column is the recommended order of study

● The second column marks units that can be done anytime outside of the recommended order of study as long as pre-requisites are met and they are completed in marked order (1-4)

POS		Unit Code	Unit Name	Pre-requisite	Unit Type	Duration		Location			
		Enrol into one unit at a time, unless approved by teacher				On Campus	Distance	Acacia Ridge	Bracken Ridge	Eagle Farm	Distance
1		MEM13015	Work safely and effectively in manufacturing and engineering		Elective A	15 weeks	6 months (eLearning)	✓	✓	✓	✓
2	● (1)	MEM09229	Read and interpret technical engineering drawings		Elective A	15 weeks		✓	✓	✓	✓
3		MEM16006	Organise and communicate information	MEM13015	Core	15 weeks		✓	✓	✓	✓
4		MEM12023	Perform engineering measurements	MEM13015, MEM16006	Elective B	15 weeks		✓	✓	✓	✓
5		MEM16008	Interact with computing technology	MEM13015, MEM16006	Core	15 weeks		✓	✓	✓	✓
6	● (2)	MEM30031	CAD system basic draw element		Elective A	15 weeks		✓	✓	✓	✓
7	● (3)	MEM30033	Use CAD create display 3D models	MEM30031	Elective A	15 weeks		✓	✓	✓	✓
8	● (4)	MEM30032	Produce basic engineering draw		Elective A	25 weeks		✓	✓	✓	✓
9		MEM09204	Produce basic engineering detail drawings	MEM09229 MEM30031A* MEM30032A* MEM30033A*	Elective A	25 weeks		✓	✓	✓	✓
10		MEM12024	Perform computations	MEM13015, MEM16006	Elective A	15 weeks		✓	✓	✓	✓

* It is a requirement by TAFE faculty that units MEM30031, MEM30032 and MEM30033 are completed prior to undertaking unit MEM09204.

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POS		Unit Code	Unit Name	Pre-requisite	Unit Type	Duration		Location			
		Enrol into one unit at a time, unless approved by teacher				On Campus	Distance	Acacia Ridge	Bracken Ridge	Eagle Farm	Distance
11		MEM30012	Apply mathematical techniques in a manufacturing engineering or related environment	MEM12024*	Core	25 weeks		✓	✓	✓	✓
12		MEM12025	Use graphical techniques and perform simple statistical computations	MEM13015, MEM16006, MEM12024	Elective B						✓
13		MEM23004	Apply technical mathematics		Elective B			✓			✓
14		MEM23109	Apply engineering mechanics principles	MEM23004	Elective B			✓			✓
15		MEM30006	Calculate stresses in simple structures	MEM30012	Elective A						✓
16		MEM09210	Create 3-D solid models using computer-aided design (CAD) system	MEM09229, MEM30031	Elective B	25 weeks	6 months (eLearning)	✓	✓	✓	✓
17		MEM09220	Apply surface modelling techniques to 3-D drawings	MEM09229, MEM30031	Elective B	25 weeks		✓	✓	✓	✓
18		MEM09221	Create 3-D model assemblies using computer-aided design (CAD) system	MEM09229, MEM30031	Elective B	25 weeks		✓	✓	✓	✓
19		MSMENV272	Participate in environmentally sustainable work practices		Core	15 weeks		✓	✓	✓	✓
20		MEM22002	Manage self in the engineering environment	MEM16006	Core						✓

* It is a requirement by TAFE faculty that unit MEM12024 is completed prior to undertaking unit MEM30012.