

Fluid Power Skill Classification & Curriculum Matrix - Hydraulic Pathway

Curriculum			Skills Classification						
Group One			Fitter (Special Class)	Technician	Workshop Supervisor	Engineer	Manager	Technical Sales	Institution of Engineers Australia
1	NM05	Engineering Calculations	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module		
2	EA063	Engineering Drawing Interpretation	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module		
3	EA090	Fault Finding & Diagnostic Skills	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module		
4	EA045	Quality Concepts	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module		
5	EA036	Communication Skills	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module	
6	EA032	Writing Technical Documents		Requisite Module	Requisite Module	Requisite Module	Requisite Module		
7	EA046	Customer Focus		Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module	
8	NM06	Computer Aided Drafting A	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module	
9	NM31	Pneumatics 1							
19	NM 32	Hydraulics 1	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module	
11	NM33	Fluid Power Control 1		Requisite Module	Requisite Module	Requisite Module	Requisite Module		

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1	NM34	Air Compression & Distribution							
2	NM60	Pneumatics 2							
3	NM 61	Pneumatics 3							
4	NM63	Fluid Power Control 2		Requisite Module	Requisite Module	Requisite Module	Requisite Module		
5	EA707	Electronic Concepts & Devices		Requisite Module	Requisite Module	Requisite Module	Requisite Module		
6	NM 57	Hydraulics 2	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module		
7	NM58	Hydraulics 3		Requisite Module	Requisite Module	Requisite Module	Requisite Module		
8	NM59	Hydraulics 4		Requisite Module	Requisite Module	Requisite Module	Requisite Module		
9	NM201	Hydraulic Equipment Repair	Requisite Module	Requisite Module	Requisite Module	Requisite Module	Requisite Module		
10	EA040	OH&S For Supervisors			Requisite Module	Requisite Module	Requisite Module		
11	EA071	Planning, Costing & Estimating			Requisite Module	Requisite Module	Requisite Module		
12	EA103	General Legislation & Requirements			Requisite Module	Requisite Module	Requisite Module	Requisite Module	
13	EA021	Dealing With Conflict			Requisite Module	Requisite Module	Requisite Module	Requisite Module	
14	EA025	Negotiating Skills			Requisite Module	Requisite Module	Requisite Module		
15	EA070	Engineering Organisation			Requisite Module	Requisite Module	Requisite Module		
16	EA036	Communications Skills						Requisite Module	
17	EA028	Speaking In Public						Requisite Module	
18	EA026	Presenting Information						Requisite Module	
19	EA065	Computer Aided Drafting B		Requisite Module					
20	EA859	Statistics				Requisite Module	Requisite Module		

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Group Three			Fitter (Special Class)	Technician	Workshop Supervisor	Engineer	Manager	Technical Sales	Institution of Engineers Australia
1	EB079	Introduction To Marketing				Requisite Module	Requisite Module		
2	EB703	Machine Design				Requisite Module	Requisite Module		
3	EB030	Advanced Quality Concepts				Requisite Module	Requisite Module		
4	EB075	Customer/Client Relations				Requisite Module	Requisite Module		
5	EB050	Engineering Project				Requisite Module	Requisite Module		
6	EB072	Critical Path & Project Control	Analysis			Requisite Module	Requisite Module		

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Group Four			Fitter (Special Class)	Technician	Workshop Supervisor	Engineer	Manager	Technical Sales	Institution of Engineers Australia
1	EB902	Tuning Techniques				Elective Module	Elective Module		
2	EB176	Electronic Systems				Elective Module	Elective Module		
3	EA190	Electronic Systems & Signals				Elective Module	Elective Module		
4	EB714	Electro Fluid Control Systems				Elective Module	Elective Module		
5	EB725	Fluid Power: Component Testing & Systems Analysis				Elective Module	Elective Module		
6	EB724	Fluid Power: Component Selection & Sizing For Design				Elective Module	Elective Module		
7	EB723	Fluid Power: Systems Design Concepts				Elective Module	Elective Module		
8	EB755	Fluid Power: Systems Project				Elective Module	Elective Module		
9	EB701	Advanced Machine Design				Elective Module	Elective Module		
10	EB771	Advanced Dynamics				Elective Module	Elective Module		

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Group Five			Fitter (Special Class)	Technician	Workshop Supervisor	Engineer	Manager	Technical Sales	Institution of Engineers Australia
1	EB033	Financial Evaluation Of Quality				Elective Module	Elective Module		
2	EB078	Improving Workplace Performance				Elective Module	Elective Module		
3	EB023	Introduction To Financial Management				Elective Module	Elective Module		
4	EB035	Planning & Management				Elective Module	Elective Module		
5	EB031	Quality Management				Elective Module	Elective Module		
6	EB020	Report Writing & Presentation Skills For Managers				Elective Module	Elective Module		
7	EB070	Engineering Management				Elective Module	Elective Module		
8	EB077	Managing & Implementing Change				Elective Module	Elective Module		
9	EB071	Project Management				Elective Module	Elective Module		
10	EB073	Project Planning				Elective Module	Elective Module		
11	EB074	Resources Management				Elective Module	Elective Module		

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The Institution of Engineers-Australian Electives			Fitter (Special Class)	Technician	Workshop Supervisor	Engineer	Manager	Technical Sales	Institution of Engineers Australia
1	EA772	Introduction To Dynamics							Elective Module
2	EA060	Engineering Design Concepts							Elective Module
3	EA711	Mechanical Drive Components							Elective Module
4	EA804	Introduction To Strength Of Materials							Elective Module
5	EB904	Control Concepts							Elective Module
6	EB650	Materials For Engineers							Elective Module

General Notes For All Courses

Requisite Module	Compulsory Modules For Skill Classification
Elective Module	Elective Modules For Skill Classification (Select Any Nine)
IE Aust Elective Module	IE Aust Elective Required For Recognition As Associate Engineer By The Institution Of Engineers-Australia