

The International Fluid Power Society of Australia (Inc)
Fluid Power Skills Classification & Curriculum Matrix

Unit of Competency	Task Description	Sales General	Mechanical Fitter	Technician Fluid Power	Supervisor & Foreman	Sales Technical	Engineer Project	Manager
	o Mandatory Subject o Recommended Subject	Cert II	Cert III	Cert IV	Dip Trade	III Tech	Dip Tech	Dip Tech
5005	Carry out mechanical cutting		✓					
5006	Perform brazing and/or silver soldering			✓	✓			
5007	Perform manual heating and thermal cutting		✓					
5012	Perform routine manual metal arc welding		✓					
5049	Perform routine gas tungsten arc welding		✓					
5050	Perform routine gas metal arc welding		✓					
6007	Perform basic incidental heat/quenching, tempering and		✓					
7005	Perform general machining		✓					
7006	Perform lathe operations		✓					
9002	Interpret technical drawing	✓	✓					
9009	Create 2D drawings using computer aided design system				✓			
9010	Create 3D models using computer aided design system				✓			
10006	Install machine/plant			✓	✓			
10008	Undertake commissioning procedures for plant and/or equipment				✓			
10010	Install pipe work and pipe work assemblies			✓	✓			
11005	Pick and process order	✓						
11007	Administer inventory procedures	✓						
12003	Perform precision mechanical measurement							
12004	Perform precision electrical/electronic measurement				✓			
12023	Perform engineering measurements	✓	✓					
12024	Perform computations		✓					
12025	Use graphical techniques and perform simple statistical computations				✓		✓	
13002	Undertake occupational health and safety activities in the workplace	✓		✓	✓			
13003	Work safely with industrial chemicals and materials			✓	✓			
13014	Apply principles of occupational health and safety in the work environment	✓	✓					
14002	Undertake basic process planning						✓	
14004	Plan to undertake a routine task	✓	✓					
14005	Plan a complete activity		✓					
14081	Apply mechanical engineering fundamentals to support design and development of projects						✓	✓
14082	Apply mechatronics fundamentals to support design and development of engineering projects						✓	✓
15002	Apply quality systems	✓	✓					
15004	Perform inspection			✓	✓			
15007	Conduct product and/or process capability studies							✓
15012	Maintain/supervise the application of quality procedures							✓
15016	Inspect pre-packed articles							
15024	Apply quality procedures	✓	✓					
16001	Give formal presentations and take part in meetings							
16003	Provide advanced customer service							
16004	Perform internal/external customer service	✓						
16005	Operate as a team member to conduct manufacturing, engineering or related activities	✓						
16006	Organise and communicate information	✓	✓				✓	✓
16007	Work with others in a manufacturing, engineering or related environment	✓	✓					
16008	Interact with computing technology	✓	✓				✓	✓
16009	Research and analyse engineering information				✓			
16011	Communicate with individuals and small groups				✓			
16012	Interpret technical specifications and manuals				✓			
16014	Report technical information				✓			
17003	Assist in the provision of on the job training		✓					
18001	Use hand tools	✓	✓					
18002	Use power tools/hand held operations		✓					
18003	Use tools for precision work		✓					

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18004	Maintain and overhaul mechanical equipment		✓					
18005	Perform fault diagnosis, installation and removal of		✓					
18006	Repair and fit engineering components		✓					
18007	Maintain and repair mechanical drives and mechanical transmission assemblies		✓					
18009	Perform levelling and alignment of machines and engineering components		✓					
18010	Perform equipment condition monitoring and recording							
18011	Shut down and isolate machines/equipment		✓					
18012	Perform installation and removal of mechanical seals		✓					
18013	Perform gland packing							
18016	Analyse plant and equipment condition monitoring results							
18018	Maintain pneumatic system components		✓					
18019	Maintain pneumatic systems			✓	✓			
18020	Maintain hydraulic system components		✓					
18021	Maintain hydraulic systems			✓	✓			
18022	Maintain fluid power controls			✓	✓			
18023	Modify fluid power system operation							
18052	Maintain fluid power systems for mobile plant							
18055	Dismantle, replace and assemble engineering components		✓					
18071	Connect/disconnect fluid conveying system components			✓	✓			
18072	Manufacture fluid conveying conductor assemblies	✓		✓	✓			
22009	Manage technical sales and promotion						✓	✓
23003	Operate and program computers and/or controllers in engineering situations						✓	
30001	Use computer aided drafting systems to produce basic engineering drawings						✓	
30002	Produce basic engineering graphics					✓	✓	✓
30004	Use CAD to create and display 3D models						✓	
30007	Select common engineering materials					✓	✓	✓
30008	Apply basic economic and ergonomic concepts to evaluate engineering applications					✓	✓	✓
30010	Set up basic hydraulic circuits					✓	✓	
30011	Set up basic pneumatic circuits					✓	✓	
30012	Apply mathematical techniques in a manufacturing, engineering or related environment				✓	✓	✓	✓
30019	Use resource planning software systems in manufacturing							✓
30023	Prepare a simple cost estimate for a manufactured product					✓		✓
30025	Analyse a simple electrical system circuit					✓	✓	
30028	Assist in sales of technical products/systems					✓	✓	✓
MCMS401	Ensure process improvements are sustained							✓
MCMT230	Apply cost factors to work practices							✓
MCMT280	Undertake root cause analysis						✓	✓
MCMS601	Analyse and map a value chain							✓
MCMS603	Develop manufacturing related business plans							✓
MCMT670	Develop and manage sustainable energy practices						✓	✓