



Outsource Services Pty Ltd
Your training and development specialists!

Leadership Training • Sales and Marketing Training • IT Training • Retail Training • Training and Assessment • Frontline Management • Business Management • Project Management • Environmental Management

SkillsTech Partners Australia Training Plan

MEM60105 Advanced Diploma of Engineering

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Training Plan

MEM60105 Advanced Diploma of Engineering

Total No 30

MANDATORY UNITS

Communication

MEM16006A	Organise and communicate information	1
MEM16008A	Interact with computing technology	1

Management & organisation

MEM22001A	Perform engineering activities	1
MEM22002A	Manage self in the engineering environment	1

Engineering technician

MEM30007A	Select common engineering materials	1
MEM30012A	Apply mathematical techniques in a manufacturing engineering or related environment	1

Sub Total No 6

Stream Units

Engineering technician

MEM30001A	Use computer aided drafting systems to produce basic engineering drawings	1
MEM30002A	Produce basic engineering graphics	1
MEM30003A	Produce detailed engineering drawings	1
MEM30004A	Use CAD to create and display 3D models	1
MEM30005A	Calculate force systems within simple beam structures	1
MEM30006A	Calculate stresses in simple structures	1
MEM30008A	Apply basic economic and ergonomic concepts to evaluate engineering applications	1
MEM30009A	Contribute to the design of basic mechanical systems	1

Sub Total No 8

SPECIALISATION UNITS

Drawing, drafting & design

MEM09005B	Perform basic engineering detail drafting	1
MEM09141A	Represent mechanical engineering designs	1
MEM09151A	Apply computer aided modelling and data management techniques to mechanical engineering designs	1

Planning

MEM14061A	Plan and design mechanical engineering projects	1
MEM14081A	Apply mechanical engineering fundamentals to support design and development of projects	1

Management & organisation

MEM22004A	Manage engineering projects	1
MEM22007A	Manage environmental effects of engineering activities	1

Engineering science

MEM23001A	Apply advanced mathematical techniques in a manufacturing engineering or related environment	1
MEM23003A	Operate and program computers and/or controllers in engineering situations	1
MEM23041A	Apply basic scientific principles and techniques in mechanical engineering situations	1
MEM23051A	Apply basic electro and control scientific principles and techniques in mechanical and manufacturing engineering situations	1
MEM23061A	Select and test mechanical engineering materials	1
MEM23071A	Select and apply mechanical engineering methods, processes and construction techniques	1
MEM23081A	Apply scientific principles and techniques in mechanical engineering situations	1
MEM23091A	Apply mechanical system design principles and techniques in mechanical engineering situations	1
MEM23093A	Apply plant and process design principles and techniques in engineering situations	1

Sub Total No 16
