

Stage 5 VET BEC – Manufacturing (Pathways)

BOS course name	BOS course number	Schools Online entry advice
Manufacturing (Pathways)	82450 (school or private provider delivered) tba (TAFE NSW delivered)	Enter this course number for either Year 9 or Year 10

Possible AQF VET qualification	Certificate I Manufacturing (Pathways) (MSA10107)
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Project and work-based learning	It is strongly recommended that project and work-based learning opportunities be used as a teaching and learning strategy throughout the course. These could include group project work, individual research or other activities that meet the learning needs of students. There is a range of career, enterprise and work education programs currently operating in schools that may be linked to the Manufacturing (Pathways) course.
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Exclusions	None
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Course requirements

This course will be credentialed as a 100-hour elective on the School Certificate.

Students must attempt:

- all compulsory units of competency
- and one technical unit of competency (compulsory) from a specialisation area
- plus elective units of competency to a minimum of 45 SC indicative hours
(note: obtain Certificate I in Manufacturing (Pathways) (MSA10107) students must achieve five elective units of competency).

Students will study this course with a focus on one specialisation. The four areas for specialisation are:

- timber
- cloth
- plastic
- metal.

Note: Students must have a 200-hour course other than English, Mathematics and Science in Stage 5 before any 100-hour course will be credentialed. Refer to Section 4.5.1 of the *Assessment, Certification and Examination (ACE) Manual*.

To count a course towards the School Certificate program of study students must satisfy the course completion criteria as required by the Board of Studies. Refer to Section 4.3 of the *Assessment, Certification and Examination (ACE) Manual*.

Access to VET by students in Stage 5

Undertaking a VET course in Stage 5 is an option for students as part of a broad general education leading to recognised schooling and VET sector qualifications. Students must also complete the mandatory requirements of the School Certificate, including the development of essential literacy and numeracy skills.

Further information, including *Guidelines for Access to Vocational Education and Training (VET) Courses in Stage 5 in 2009* is available on the Board of Studies website at www.boardofstudies.nsw.edu.au/voc_ed/stage-5.html

Course content

Unit code	Unit title	Unit-specific prerequisite/corequisite	Core (C) or elective (E) for AQF VET qualification	SC indicative hours of credit
COMPULSORY Attempt ALL units of competency				
MSAPCI101A	Adapt to work requirements in industry	Nil	core	15
MSAPCI102A	Apply effective work practices	Nil	core	15
MSAPCI103A	Demonstrate care and apply safe practices at work	Nil	core	15
Total SC indicative hours for compulsory units of competency				45

AND

ONE Technical unit of competency (compulsory)				
<i>Timber specialisation</i> – oriented to constructing an object from timber				
MSAPII296A	Make a small furniture item from timber	Nil	industry/technical core	10
OR				
<i>Cloth specialisation</i> – oriented to constructing an object from cloth				
MSAPII297A	Make an object from cloth using an existing pattern	Nil	industry/technical core	10
OR				
<i>Metal specialisation</i> – oriented to constructing an object from metal				
MSAPII298A	Make an object from metal	Nil	industry/technical core	10
OR				
<i>Plastic specialisation</i> – oriented to constructing an object from plastic				
MSAPII299A	Make an object from plastic	Nil	industry/technical core	10

PLUS

Electives Attempt units of competency to a minimum of <u>45</u> SC indicative hours				
<i>Timber Specialisation</i>				
LMFFM1002B	Operate a basic woodworking machine	Nil	elective	15
LMFFM2001B	Use furniture making sector hand and power tools	Nil	elective	25
LMFFM2002B	Assemble furnishing components	Nil	elective	15
LMFFM2003B	Select and apply hardware	Nil	elective	10
LMFFM2005B	Join solid timber	Nil	elective	10

Electives (cont/d)

Unit code	Unit title	Unit-specific prerequisite/ co-requisite	Core (C) or elective (E) for AQF VET qualification	SC indicative hours of credit
<i>Cloth Specialisation</i>				
LMFSF1001B	Produce basic soft furnishings accessories	Nil	elective	15
LMFSF2001B	Cut single layer fabrics	Nil	elective	15
LMTCL2001B	Use a sewing machine	Nil	elective	10
LMTCL2003B	Identify fibres and fabrics	Nil	elective	20
LMTCL2006B	Press work	Nil	elective	10
LMTCL2007B	Lay up, mark and cut uncomplicated fabrics and lays	Nil	elective	15
LMTCL2008B	Finish garment production	Nil	elective	10
<i>Metal Specialisation</i>				
MEM03001B	Perform manual production assembly	Nil	elective	35
MEM05007C	Perform manual heating and thermal cutting	Nil	elective	10
MEM05012C	Perform routine manual metal arc welding	Nil	elective	20
MEM18001C	Use hand tools	Nil	elective	20
MEM18002B	Use power tools/hand held operations	Nil	elective	20
<i>Plastic Specialisation</i>				
PMBFIN201C	Finish products and components	Nil	elective	20
PMBFIN205C	Hand decorate products	Nil	elective	20
PMBPREP205C	Assemble materials and equipment for production	Nil	elective	20
PMBPREP206C	Prepare materials to formulae	Nil	elective	20
PMBPROD236C	Operate hand held air/power equipment for production processes	Nil	elective	20
PMBPROD240C	Cut materials	Nil	elective	20
<i>Across specialisations</i>				
		Nil		
MSAPMOPS100A	Use equipment	Nil	elective	10
MSAPMOPS101A	Make measurements	Nil	elective	15
MSAPMOPS102A	Perform tasks to support production	Nil	elective	15
MSAPMOPS244A	Layout and cut materials	Nil	elective	15
<i>Elective units of competency imported from other endorsed Training Packages available for inclusion at Certificate I or II</i>				
CPCCOHS1001A	Work safely in the construction industry*	Nil	imported elective	25
BCGCM1001B	Follow OH&S policies and procedures*	Nil	elective	25
BCGVE1002B	Undertake a basic construction	BCGCM1001B	imported elective	20

* Only one of these units of competency can contribute towards the School Certificate indicative hour requirement of this course.

Unit code	Unit title	Unit-specific prerequisite/ co-requisite	Core (C) or elective (E) for AQF VET qualification	SC indicative hours of credit
BCGVE1004B	Undertake basic estimation and costing	BCGCM1001B	imported elective	25
MEM11011B	Undertake manual handling	Nil	imported elective	5
MEM16008A	Interact with computing technology	Nil	imported elective	10

AQF VET qualification

To obtain Certificate I in Manufacturing (Pathways) (MSA10107) students must achieve nine units of competency including:

- a) three core units of competency
- b) one unit of competency from the industry/technical core list (coded MCMP)
- c) five elective units of competency.(a minimum of two units of competency from the electives listed above and a maximum of three units of competency drawn from other endorsed Training Packages where those units are available for inclusion at Certificate I or II).