



Australian Government

PMB20121 Certificate II in Polymer Processing

Release 2

PMB20121 Certificate II in Polymer Processing

Modification History

Release 2. Update to first aid elective.

Release 1. Supersedes and is equivalent to PMB20116 Certificate II in Polymer Processing.

Qualification Description

This qualification reflects the role of operators who operate production equipment or undertake similar roles to directly produce products. They operate production equipment within defined specifications and procedures and carry out a range of support functions. The operator will be able to apply technical and procedural knowledge to a defined range of situations and activities and be able to solve predictable problems by applying known solutions and will report non-routine problems to appropriate personnel.

Products and components may be for commercial, industrial or consumer markets and be made from natural or synthetic polymers covering thermoplastics as well as thermosetting polymers. Production may be long runs of standard products, short runs, or 'one offs' of specialised products.

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements in some jurisdictions. Local regulations should be checked for details.

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

Total number of units = 14

- 2 core units
- 12 elective units, consisting of:
 - at least 3 units from Group A
 - up to 4 units from any endorsed Training Package or accredited courses – these units must be relevant to the work outcome

| Core units | |
|------------|--------------------------------|
| Unit Code | Unit Title |
| MSMSUP210 | Process and record information |
| MSMWHS200 | Work safely |

| Elective Units | | |
|-----------------------|---|----------------------|
| Group A | | |
| Unit code | Unit title | Prerequisites |
| PMBFIN201E | Finish components and products | |
| PMBFIN202E | Fit attachments and assemble components for customised polymer products | |
| PMBFIN203E | Rework product imperfections | |
| PMBFIN205E | Hand decorate products | |
| PMBPREP201E | Prepare moulds for composites production | |
| PMBPREP205E | Assemble materials and equipment for production | |
| PMBPREP206E | Prepare polymer materials to specified formulae | |
| PMBPROD206E | Operate ancillary equipment | |
| PMBPROD207E | Operate rubber calendaring equipment | |
| PMBPROD209E | Operate cable winding equipment | |
| PMBPROD210E | Operate injection moulding equipment | |
| PMBPROD213E | Operate polymer extruders | |
| PMBPROD216E | Operate blown film equipment | |
| PMBPROD217E | Operate printing equipment | |
| PMBPROD221E | Operate rotational moulding equipment | |
| PMBPROD235E | Use materials and process knowledge to complete work operations | |
| PMBPROD236E | Operate hand-held air or power equipment for production processes | |
| PMBPROD238E | Perform creel rack operations for belting production | |
| PMBPROD239E | Build fabric-reinforced conveyor belts | |
| PMBPROD240E | Cut plastic materials | |

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| PMBPROD241E | Install rubber lining or pulley lagging using lay-up techniques | |
| PMBPROD242E | Bond polymers to surfaces | |
| PMBPROD243E | Cut rubber materials | |
| PMBPROD245E | Fabricate products with rubber or plastics | |
| PMBPROD246E | Hand mix materials | |
| PMBPROD247E | Create composite laminates using hand lay-up techniques | |
| PMBPROD248E | Prepare surfaces for coating | |
| PMBPROD249E | Apply liquid surface coatings | |
| PMBPROD251E | Apply gel coat or other polymer surface finish | |
| PMBPROD252E | Operate polymer compounding equipment | |
| PMBPROD253E | Operate an internal mill blender | |
| PMBPROD254E | Operate an open mill blender | |
| PMBPROD255E | Operate polymer mixing equipment | |
| PMBPROD261E | Operate continuous vulcanising equipment | |
| PMBPROD265E | Operate portable vulcanising equipment | |
| PMBPROD280E | Operate a chopper gun to lay-up composites | |
| PMBPROD281E | Finish composite products | |
| PMBPROD282E | Reassemble production mould components | |
| PMBPROD283E | Demould polymer products | |
| PMBPROD287E | Weld thermoplastics materials | |
| PMBPROD293E | Create composite laminates using vacuum-assisted closed-moulding processes | |
| Other electives | | |
| Unit code | Unit title | Prerequisites |

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| HLTAID011 | Provide first aid | |
| MEM11011 | Undertake manual handling | |
| MEM13003 | Work safely with industrial chemicals and materials | MEM11011, MEM13015, MEM16006 |
| MEM13015 | Work safely and effectively in manufacturing and engineering | |
| MEM16006 | Organise and communicate information | |
| MEM16008 | Interact with computing technology | MEM13015, MEM16006 |
| MEM18001 | Use hand tools | MEM11011, MEM13015, MEM16006 |
| MEM18002 | Use power tools/hand held operations | MEM11011, MEM13015, MEM16006 |
| MSMENV172 | Identify and minimise environmental hazards | |
| MSMENV272 | Participate in environmentally sustainable work practices | |
| MSMOPS100 | Use equipment | |
| MSMOPS101 | Make measurements | |
| MSMOPS102 | Perform tasks to support production | |
| MSMOPS200 | Operate equipment | |
| MSMOPS212 | Use organisation computers or data systems | |
| MSMOPS244 | Lay out and cut materials | |
| MSMPER200 | Work in accordance with an issued permit | |
| MSMPER201 | Monitor and control work permits | |
| MSMPER205 | Enter confined space | MSMPER200 |
| MSMSUP100 | Apply workplace context to own job | |

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| MSMSUP101 | Clean workplace or equipment | |
| MSMSUP102 | Communicate in the workplace | |
| MSMSUP106 | Work in a team | |
| MSMSUP200 | Achieve work outcomes | |
| MSMSUP204 | Pack products or materials | |
| MSMSUP205 | Transfer loads | |
| MSMSUP230 | Monitor process operations | |
| MSMSUP240 | Undertake minor maintenance | |
| MSMSUP273 | Handle goods | |
| MSMSUP280 | Manage conflict at work | |
| MSMSUP291 | Participate in continuous improvement | |
| MSMSUP292 | Sample and test materials and product | |
| MSMWHS100 | Follow WHS procedures | |
| MSMWHS110 | Follow emergency response procedures | |
| MSMWHS205 | Control minor incidents | |
| MSMWHS210 | Undertake first response to non-fire incidents | |
| MSMWHS212 | Undertake first response to fire incidents | |
| MSMWHS216 | Operate breathing apparatus | |
| MSMWHS217 | Gas test atmospheres | |
| MSS402002 | Sustain process improvements | |
| MSS402020 | Apply quick changeover procedures | |
| MSS402021 | Apply Just in Time procedures | |
| MSS402040 | Apply 5S procedures | |
| MSS402050 | Monitor process capability | |
| MSS402051 | Apply quality standards | |

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| MSS402080 | Undertake root cause analysis | |
| MSS402082 | Apply cost factors to work practices | |
| MSS402083 | Use planning software systems in operations | |
| MSTGN3009 | Coordinate work of team or section | |
| PMBHAN103E | Shift materials safely by hand | |
| RIIRIS201D | Conduct local risk control | |
| TLID2010 | Operate a forklift | |

Qualification Mapping Information

Release 2. Supersedes and is equivalent to PMB20116 Certificate II in Polymer Processing (Release 1).

Release 1. Supersedes and is equivalent to PMB20116 Certificate II in Polymer Processing.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=932aacef-7947-4c80-acc6-593719fe4090>