



Australian Government

MSMSS00016 Bioprocessing using pyrolysis

Release 1

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Modification History

Release 1 - New skill set.

Description

This Skill Set reflects the skills requirements to process biomass using pyrolysis to produce a range of products, such as biochar, bio-oil and gases (hydrogen, carbon monoxide, methane) which can be used to produce heat, power, chemicals or additives. It includes pre-treating biomass and the operation of the pyrolyser reactor and the ancillary and distillation equipment. It also includes dealing with bioprocessing hazards, such as, dangerous gas emissions and shutting down and isolating machines and equipment in emergencies.

Pathways Information

These units provide credit towards the Certificate III in Process Manufacturing.

Licensing/Regulatory Information

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Skill Set Requirements

MSMBIO301 Process biomass using pyrolyser
PMAOPS301 Operate a distillation unit
PMAOPS302 Operate reactors and reaction equipment

Target Group

This Skill Set is for plant operators and technicians responsible for operating pyrolyser and distillation equipment to produce a range of commercial bioproducts.

Suggested words for Statement of Attainment

These competencies from the MSM Manufacturing Training Package meets industry requirements for operating pyrolyser and distillation equipment to produce bioproducts.

Custom Content Section

Not applicable.