

REQUIREMENTS FOR DESIGN AND MANUFACTURE OF PLANT/EQUIPMENT

Design

- Ensure, so far as is reasonably practicable, that the plant/equipment is designed to be without risks to the health and safety of workers:
 - who, at a workplace, use the plant/equipment for the purpose for which it is designed.
 - who store the plant/equipment at a workplace.
 - who carry out any reasonably foreseeable activity at a workplace in relation to the manufacture, assembly or use of plant/equipment for the purpose for which it was designed, or proper storage, decommissioning, dismantling or disposal of plant/equipment.
 - who are at or in the vicinity of a workplace and are exposed to the plant/equipment.

- Ensure that calculations, analysis, testing or examination are carried out to ensure so far as is reasonably practicable that the plant/equipment is designed to be without risks to the health and safety of workers (as above).

- Ensure that the relevant technical standards are used when designing Plant/equipment (please refer to [Appendix C within the Code of Practice managing risks of plant at the workplace](#)).

- Ensure that a risk assessment has been completed during the design phase which includes:
 - the range of environmental and operational conditions in which the plant/equipment is intended to be manufactured, transported, installed, erected, used, maintained, repaired and/or cleaned (including waste management where applicable);
 - the ergonomic needs of workers who may use the plant/equipment;
 - the implementation of controls to eliminate any risk, or where that is not reasonably practicable, minimise the risk.

- Ensure that if guarding is used as a control measure that it is designed in accordance with [WHS Regulations 2012 \(SA\) \[sections 189 and 208\]](#).

- Ensure that the operational controls, emergency stop controls and warning devices are designed in accordance with [WHS Regulations 2012 \(SA\) \[sections 190 to 192\]](#).

- Ensure that adequate information is provided to each person who is provided with the design concerning:
 - Purpose for which the plant/equipment was designed.
 - Results of any calculations, analysis, testing or examination.
 - Any conditions necessary to ensure that the plant/equipment is without risk to health and safety when used for the purpose for which it was designed.

- Ensure that the manufacturer is provided with information on the design specifications, intended use and systems of work necessary for the safe use of the plant/equipment, including emergency procedures (Refer to [Appendix A](#) page 2).

- Ensure that where specified in [Appendix E](#), designs are registered with SafeWork SA (Refer to [WHS Regulation 2012 \(SA\) \[sections 227-230\]](#)).

HSW Handbook	Plant/Equipment Safety Management	Effective Date:	24 October 2014	Version 3.1
Authorised by	Chief Operating Officer and Vice-President (University Operations)	Review Date:	24 October 2017	Page 1 of 2
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			

REQUIREMENTS FOR DESIGN AND MANUFACTURE OF PLANT/EQUIPMENT

Manufacturing

- Manufacture the plant/equipment in accordance with the design specifications.
- Ensure that the relevant technical standards are used when manufacturing plant/equipment (please refer to [Appendix C within the of Code of Practice managing risks of plant at the workplace](#)).
- Ensure that after manufacture, if there is a fault that may affect the health or safety of the operator, that information pertaining to the fault and steps required to rectify it are provided to the relevant person(s) including the designer.
- Ensure that the receiver of the item is provided with information which includes the:
 - purpose for the plant/equipment;
 - requirements for testing and inspection installation, commissioning, operation, maintenance, cleaning, transport, storage, ongoing registration requirements;
 - systems of work necessary for the safe use of the plant/equipment; and
 - knowledge, training or skill necessary to test and maintain the plant/equipment.
- Ensure that where specified in [Appendix E](#), designs are registered with SafeWork SA (unless already registered by the designer) (Refer to [WHS Regulation 2012 \(SA\) \[section 231\]](#)).

HSW Handbook	Plant/Equipment Safety Management	Effective Date:	24 October 2014	Version 3.1
Authorised by	Chief Operating Officer and Vice-President (University Operations)	Review Date:	24 October 2017	Page 2 of 2
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			