

# LEARNING OUTCOMES

## 28 Mechanical Plant

	Cognitive level	What the graduate should be able to do	Context	Level
Operational activities that a <u>new graduate</u> generalist OHS professional would be expected to undertake related to the topic	5	<b>28.1 <u>Develop</u></b> criteria for design and selection of new plant and modifications to existing plant.	For a nominated situation or workplace. Within a small organisation or section of a larger organisation With support/input by experienced professionals and /or technical specialists	In liaison with managers, supervisors, technical and procurement personnel. To ensure fitness for purpose at the highest level of practical control. Taking account of relevant legislation and standards.
	5	<b>28.2 <u>Facilitate</u></b> development and implementation of control strategies for plant hazards.	For a nominated situation or workplace. Within a small organisation or section of a larger organisation. With support/input by experienced professionals and /or technical specialists.	In liaison with managers, supervisors, technical personnel and worker representatives. Taking account of relevant legislation and standards.
	5	<b>28.3 <u>Develop and maintain</u></b> a safe system of work relating to plant.	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organization. With support/input by experienced professionals and /or technical specialists.	Taking account of the relevant legislation, codes of practice and standards. System of work includes operations and maintenance functions, tag out/lockout and permit to work systems.
Well developed/advanced cognitive and technical skills to analyse, critically evaluate and transform information to complete activities related to the topic	6	<b>28.4 <u>Apply</u></b> a knowledge of the regulatory framework for plant together with knowledge of plant as a hazard to <u>identify</u> and <u>assess/evaluate</u> the hazard and associated risk.	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation. Using pre-developed and tested tools available in the workplace, the industry or obtained from other recognised sources.	In consultation with appropriate workplace personnel. With sign-off by a second/experienced professional where the risk may be critical. Documented in a report to management.

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	5	<b>28.5 Develop</b> processes to monitor and evaluate control strategies for plant hazards.	For a nominated situation or workplace. For a nominated scenario. Within a small organization or section of a larger organisation	Consideration given to how controls for plant may be defeated. Documented in a report to management.
Analyse and generate solutions to complex problems related to the topic	3	<b>28.6 Identify</b> when specialist advice is required and define the scope of work to engage services of appropriate specialists.	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation	Documented in a report to management.
	5	<b>28.7 Apply</b> knowledge of plant including guarding and other options for control to <b>develop</b> a hazard management strategy for plant.	For a nominated situation or workplace. For a nominated scenario and type of plant. Within a small organisation or section of a larger organisation.	Documented as a management system document.
	3	<b>28.8 Engage</b> with relevant personnel to implement the plant hazard management strategy	For a nominated situation or workplace. Within a small organisation or section of a larger organisation	Relevant personnel include managers, supervisor, job planners and worker representatives.
Transmit knowledge, skills and ideas to others	3	<b>28.9 Interpret</b> information to explain plant as a hazard and the way in which it causes harm, the level of risk and rationale for control strategies.	Information may include specialist reports.	Communication strategies and language appropriate to the audience.
	2	<b>28.10 Explain</b> the workplace safety procedures relating to plant.	In induction and similar processes.	To staff and contractors. Communication strategies and language appropriate to the audience.
Demonstrate the required underpinning science and/or psychology knowledge		Underpinning science: as it relates to physics of energy transfer and pressure (pneumatics, hydraulics)		
Integration of knowledge from other chapters		Causation; 31.1; Risk as it applies to plant; 34.1 Prevention and Intervention; 34.3 Health and safety in design 16 Work-related Musculoskeletal disorders; 22.1 Noise; 22.2 Vibration; 23.1 Electricity; 26 Thermal Environment Gravitational hazards;		