23.2 Electricity: Arc Flash

	Cognitive level	What the graduate should be able to do	Context	Level
Operational activities that a new graduate generalist OHS professional would be expected to undertake related to the topic	5	**23.2-1** Influence the design and procurement to minimise arc flash hazards.	For a nominated situation or workplace. Within a small organisation or section of a larger organisation.	In liaison with electrical specialists and procurement personnel.
	3	**23.2-2** Contribute to developing and maintaining safe systems of work relating to arc flash hazards.	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation. With support input/by technical specialists.	Taking account of organisational context and culture. In liaison with electrical specialists. Taking account of the regulations related to electricity. Systems of work may include tag-out/lockout and permit to work systems as appropriate.
	3	**23.2-3** Influence job planning to minimise arc flash hazards.	In routine, maintenance or shut down situations.	In liaison with supervisors and technical personnel.
Well developed/advanced cognitive and technical skills to analyse, critically evaluate and transform information to complete activities related to the topic	6	**23.2-4** Support assessment /evaluation of arc flash hazards 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	Applying a systems approach taking account of organisational context and culture. In liaison with electrical specialists and appropriate workplace personnel. With sign off by a second/experienced professional where the risk may be critical. Documented in a report to management.
	5	**23.2-5** Develop processes to monitor and evaluate control strategies for arc flash	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation.	In liaison with electrical specialists and appropriate workplace personnel. Documented in a report to management.

LEARNING OUTCOMES

	Cognitive level	What the graduate should be able to do	Context	Level
Analyse and generate solutions to complex problems related to the topic	3	**23.2-6** Identify 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.
	3	**23.2-8** Contribute to development and implementation of control strategies for arc flash hazards.	For a nominated situation or workplace. Within a small organisation or section of a larger organisation With support input/by technical specialists.	Applying a systems approach taking account of organisational context and culture. In liaison with electrical specialists . Taking account of relevant legislation and standards.
	3	**23.2-9** Engage with relevant personnel to support implementation of the arc flash hazard management strategy.	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation.	Relevant personnel include electrical specialists, managers, supervisor, job planners and worker representatives.
Transmit knowledge, skills and ideas to others	5	**23.2-10** Interpret information to explain arc flash as a hazard and the way in which it causes harm, the level of risk and rationale for control strategies.	Information may include technical reports.	Communication strategies and language are appropriate to the audience.
Demonstrate the required underpinning science and/or psychology knowledge		Underpinning science: related to the physics of electricity and arc flash and the physiology of electric shock and burns. The Human: 7 As a biological system related the physiology of electric shock and burns.		
Integration of knowledge from other chapters		31.1 Risk as it applies to arc flash hazards.. 34.1 Prevention and Intervention		