

11.3 OHSBoK LO: Managing Process Safety

Participating on the management of process safety is not a core function for OHS professionals. However, these learning outcomes address the role of an OHS professional who may be working in a process environment.

	What cognitive level?	What should the graduate be able to do?	In what context?	To what level?
Operational activities that a new graduate generalist OHS professional would be expected to undertake related to the topic	3	11.3.1 Interpret a range of very basic engineering drawings to contribute to hazard identification and risk assessment in a process environment.	For a nominated situation or workplace. Within a small organization or section of a larger organization. With support/input by experienced process safety professionals and /or technical specialists.	Where engineering drawings represent non-complex situations or a segment of more complex drawings. In liaison with managers, supervisors, technical personnel and worker representatives.
	5	11.3.2 Collaborate and share information to optimize the outcomes of OHS and process safety audits.	For a nominated situation or workplace. Within a small organization or section of a larger organization. With support/input by experienced safety professionals.	In liaison with managers, supervisors, technical personnel and worker representatives. Taking account of relevant legislation, and standards.
	5	11.3.3 Contribute to the development of indicators that facilitate evaluation of effectiveness of OHS and process safety.	For a nominated situation or workplace. Within a small organization or section of a larger organization. With support/input by experienced OHS and process safety professionals.	In liaison with managers, supervisors, technical personnel and worker representatives. Taking account of relevant legislation, and standards.
	4	11.3.4 Contribute to emergency planning in a process environment.	For a nominated situation or workplace. Within a small organization or section of a larger organization. With support/input by experienced process safety professionals and /or technical specialists	Taking account of the relevant legislation, codes of practice and standards. Considering available resources including local emergency response agencies.



	What cognitive	What should the graduate be	In what context?	To what level?
	level?	able to do?		
Well-developed/advanced cognitive and technical skills to analyse, critically evaluate and transform information to complete activities related to the topic	4	11.3.5 Apply knowledge of the process environment to contribute to hazard identification and risk assessments.	For a nominated situation or workplace. Within a small organization or section of a larger organization. With support/input by experienced process safety professionals and /or technical specialists.	In liaison with managers, supervisors, technical personnel and worker representatives. Applying an understanding of failure rates and modes. Taking account of relevant legislation, and standards.
	6	and organizational management of change processes to identify, evaluate and communicate implications for OHS and process safety.	For a nominated situation or workplace. Within a small organization or section of a larger organization. With support/input by experienced process safety professionals and /or technical specialists.	Taking account of documented MoC processes within the organisation.
	4	an OHSMS with guidelines/principles of process safety to identify potential for an integrated approach.	For a nominated situation or workplace. Within a small organization or section of a larger organization.	In liaison with managers, supervisors, technical personnel and worker representatives. Taking account of relevant legislation and standards.
Analyse and generate solutions to complex problems related to the topic	5	11.3.8 Integrate principles of control for OHS and for process safety to contribute to the development of risk controls for process hazards.	For a nominated situation or workplace. Within a small organization or section of a larger organization. With support/input by experienced process safety professionals and /or technical specialists.	Taking account of the relevant legislation, codes of practice and standards. Controls focus on elimination through design. Control documentation identifies safety critical elements and their maintenance requirements.



	What cognitive	What should the graduate be	In what context?	To what level?	
	level?	able to do?			
Transmit knowledge, skills and ideas to others	3	11.3.9 <u>Differentiate</u> between process safety and OHS to explain the difference in management approach and scale of potential consequences.	For a nominated situation or workplace.	With independence. To staff, contractors, workers and other professionals. Communication strategies and language appropriate to the audience.	
	3	11.3.10 Explain the interaction of process safety and OHS and the comparative roles of OHS and process safety professionals in controlling risk in a process environment.	In induction and similar processes. For a nominated situation or workplace. Within a small organization or section of a larger organization	To staff, contractors and other professionals. Communication strategies and language appropriate to the audience.	
	5	11.3.11 Explain the role of OHS in an integrated approach to risk management in a process environment.	For a nominated situation or workplace. Within a small organization or section of a larger organization	To staff, contractors, workers and other professionals. Communication strategies and language appropriate to the audience.	
Demonstrate the required underpinning science and/or psychology knowledge		Basic chemistry, physics,			
Integration of knowledge from other chapters		Systems, Organisational culture Causation; Control; Risk, Risk and decision-making Hazard specific chapters: Biomechanical, Biological, Chemical, Electricity; Biomechanical Hazards; Noise; Gravitational hazards; Thermal Environment			