

### 17.3 OHSBoK LO: Process Hazards (Chemical)

	<i>What cognitive level?</i>	<i>What should the graduate be able to do?</i>	<i>In what context?</i>	<i>To what level?</i>
Operational activities that a <u>new graduate</u> generalist OHS professional would be expected to undertake related to the topic	3	<b>17.3.1</b> <u>Identify</u> hazardous substances and sources of ignition that present process hazards.	For a nominated situation or workplace. Within a small organization or section of a larger organization. With support/input by experienced OHS and/ or process safety professionals.	In liaison with supervisors and technical personnel. With reference to the GHS Classification and Labelling of Chemicals.
Well-developed/advanced cognitive and technical skills to analyse, critically evaluate and transform information to complete activities related to the topic	5	<b>17.3.2</b> <u>Contribute</u> to processes to monitor and evaluate effectiveness of barriers, particularly planned maintenance, to prevent or mitigate process safety events	For a nominated situation or workplace. Within a small organization or section of a larger organization. For a nominated scenario. Within a small organization or section of a larger organization.	Documented in a report to management.
Analyse and generate solutions to complex problems related to the topic	5	<b>17.3.4</b> <u>Apply</u> knowledge of the process hazards, their potential consequences and principles of control to contribute to hazard management strategies for process hazards.	For a nominated situation or workplace. For a nominated scenario. Within a small organization or section of a larger organization.	Documented as a management system document. Taking account of relevant legislation, standards and codes of practice. Control strategies focus on elimination of the hazard and sources of ignition with layers of protection Control strategies include minimization of escalation.
Transmit knowledge, skills and ideas to others	3	<b>17.3.5</b> <u>Interpret</u> information to explain the potential outcomes and consequences of events involving process hazards.	For a nominated situation or workplace. Information may include specialist reports.	Communication strategies and language appropriate to the audience.

	<i>What cognitive level?</i>	<i>What should the graduate be able to do?</i>	<i>In what context?</i>	<i>To what level?</i>
	2	<b>17.3 Explain</b> the principles of causation of fire and explosion and including dust explosions.	In induction, worker training and similar processes. For a nominated situation or workplace.	With reference to the fire tetrahedron and dust explosion pentagon. To workers 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 the behavior of chemicals including concept of energy, behavior of gases and reactivity of chemicals		
Integration of knowledge from other chapters		Chemical hazards Causation; Control; Risk as it applies to process safety Managing Process Safety		