## Chemical Safety in Secondary Schools

## **Dr Phillip Crisp**

7 March 2017

## Our Lady of the Rosary Cultural Centre Auditorium McCarthy Catholic College Tribe Street, Tamworth

8.30-	Registration	
9.00	• tea/coffee	
9.00-	Introduction	
9.15	Welcome	Housekeeping
	• Work Health Safety Act and Regulation	Dangerous Goods legislation
9.15-	How to avoid an "accident"	0 0
10.00	<ul> <li>factors underlying "accidents"</li> </ul>	• examples of "accidents" in schools
	<ul> <li>how chemicals cause injury</li> </ul>	layers of defence
	• toxicity and hazard	<ul> <li>how to spot dangers</li> </ul>
10.00-	Risk assessment: the logic and the process	
11.00	legal requirements, WHS Act 2011	<ul> <li>the whole risk assessment process</li> </ul>
	<ul> <li>identify, assess and control risks</li> </ul>	<ul> <li>risk matrix</li> </ul>
	<ul> <li>advantages of a formalised system</li> </ul>	<ul> <li>overview of RiskAssess</li> </ul>
11.00-	MORNING TEA	
11.30		
11.30-	Globally Harmonised System (GHS	) for hazardous chemicals
12.30	<ul> <li>classification of chemicals</li> </ul>	• physical, health, environmental hazards
12.00	<ul> <li>labelling of chemicals</li> </ul>	<ul> <li>hazard pictograms</li> </ul>
	<ul> <li>safety data sheets (SDSs)</li> </ul>	<ul> <li>signal words</li> </ul>
	<ul> <li>record keeping</li> </ul>	<ul> <li>hazard and precautionary statements</li> </ul>
12.30-	Dangerous chemicals	1 5
1.15	explosive chemicals	toxic chemicals
	corrosive chemicals	carcinogenic & teratogenic chemicals
	lung-damaging chemicals	allergenic chemicals
1.15-	LUNCH	0
2.00		
2.00-	Safe use of chemical equipment	
2.30	• Bunsen burner, tripod and gauze	• gas cylinders
	cutting equipment	dry ice & liquid nitrogen
	• gas taps and hot equipment	radioactive sources
	glass tubing & fittings	Standard Operating Procedures
0.00		1 0
2.30-	Sale storage of chemicals	
2.30- 3.15	<ul><li>Safe storage of chemicals</li><li>storage systems for chemicals</li></ul>	<ul> <li>classes of Dangerous Goods</li> </ul>
	<ul> <li>storage systems for chemicals</li> </ul>	<ul><li> classes of Dangerous Goods</li><li> legal storage requirements</li></ul>
		<ul><li> classes of Dangerous Goods</li><li> legal storage requirements</li><li> Codes of Practice</li></ul>
	<ul><li>storage systems for chemicals</li><li>maintaining a chemical register</li><li>Australian Standards</li></ul>	<ul> <li>legal storage requirements</li> </ul>
3.15	<ul> <li>storage systems for chemicals</li> <li>maintaining a chemical register</li> <li>Australian Standards</li> </ul> Disposal of chemical wastes	<ul><li>legal storage requirements</li><li>Codes of Practice</li></ul>
3.15 3.15-	<ul><li>storage systems for chemicals</li><li>maintaining a chemical register</li><li>Australian Standards</li></ul>	<ul> <li>legal storage requirements</li> </ul>