Science Safety in Secondary Schools

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Wednesday 4th & Thursday 5th May 2016

Tailrace Centre 1 Waterfront Drive, Riverside

Day 1: Wednesday

9.00-	Registration		
9.30	• tea/coffee		
9.30-	Introduction		
9.45	welcome		
	housekeeping		
9.45-	Legal obligations		
10.00	Work Health Safety Act and Regulation	 Dangerous Goods legislation 	
	Common law	other legislation	
10.00-	Risk assessment: the logic and the process		
11.00	requirements	 the whole risk assessment process 	
	identify, assess and control risks	• risk matrix	
	advantages of a formalised system	 overview of RiskAssess 	
11.00-	MORNING TEA		
11.30			
11.30-	Workshop on RiskAssess software		
12.30	structure and details of RiskAssess	Australian Curriculum	
	hands-on demonstration	 Student RiskAssess 	
	hints for current users	 future developments 	
12.30-	How to avoid an "accident"		
1.15	factors underlying "accidents"	 examples of "accidents" in schools 	
	how chemicals cause injury	 layers of defence 	
	toxicity and hazard	 how to spot dangers 	
1.15-	LUNCH		
2.00			
2.00-	Safe use of 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 	
2.30-	Biological safety		
3.00	microbiology	• live animals	
	• dissections	waste disposal	
3.00-	Fire safety and emergency procedure	es	
4.00	types of fires	 types of fire extinguishers 	
	spills, bomb threat, terrorism	 use of fire extinguishers 	
	emergency procedures	 emergency assistance 	
	video on fire fighting	 video on emergency evacuation 	

Day 2: Thursday

8.00-	Registration		
8.30	• tea/coffee		
8.30-	Globally Harmonised System (GHS) for chemicals		
9.30	classification of chemicals	 physical, health, environmental hazards 	
	labelling of chemicals	 hazard pictograms 	
	safety data sheets (SDSs)	• signal words	
	record keeping	 hazard and precautionary statements 	
9.30-	Dangerous chemicals		
10.30	explosive chemicals	 toxic chemicals 	
	corrosive chemicals	 carcinogenic & teratogenic chemicals 	
	lung-damaging chemicals	 allergenic chemicals 	
10.30-	MORNING TEA		
11.00			
11.00-	Safe storage and use of chemicals		
11.45	storage systems for chemicals	 classes of Dangerous Goods 	
	maintaining a chemical register	 legal storage requirements 	
	Australian Standards	 Codes of Practice 	
11.45-	Disposal of chemical wastes		
12.15	legal requirements	 disposal methods 	
	practical problems	 dealing with spills 	
	examples of safe disposal		
12.15-	LUNCH		
1.00			
1.00-	Guidelines for planning new experiments		
1.45	sources of information	sources of reliable information!	
	testing of experiments	 general considerations 	
1.45-	Electrical safety		
2.15	• earthing	 safe and unsafe situations 	
	current balance switching	 wiring basics 	
	testing and tagging equipment	 how to spot dangers 	
2.15-	Systematic approach to safety		
3.00	WHS management systems	 learning from "accidents" 	
	prioritisation of safety activities	 WHS Committees 	
	operations most "accident" prone	 documentation 	
	implementation of a management system	 systematic "accident" prevention 	

If you would like to register, please visit <u>www.riskassess.com.au</u> and click on <u>safety courses</u>, then <u>registration</u>

If you would like further information, please contact Phillip Crisp phillip@ecosolve.com.au or Melissa McGuire phillip@ecosolve.com.au whs.catholic.tas.edu.au