

Safety in laboratories

Dr Phillip Crisp

Thursday 28th & Friday 29th April 2016

Carmody Hall
Oakhill College
423-513 Old Northern Road, Castle Hill

Day 1: Thursday

8.15-9.00	Registration <ul style="list-style-type: none">• tea/coffee
9.00-9.15	Introduction <ul style="list-style-type: none">• welcome• housekeeping
9.15-9.30	Legal obligations <ul style="list-style-type: none">• Work Health Safety Act and Regulation• Common law• Dangerous Goods legislation• other legislation
9.30-10.30	Risk assessment: the logic and the process <ul style="list-style-type: none">• requirements• identify, assess and control risks• advantages of a formalised system• the whole risk assessment process• risk matrix• overview of RiskAssess
10.30-11.00	<i>MORNING TEA</i>
11.00-12.00	Workshop on RiskAssess software <ul style="list-style-type: none">• structure and details of RiskAssess• hands-on demonstration• hints for current users• Australian Curriculum• Student RiskAssess• future developments
12.00-1.00	How to avoid an "accident" <ul style="list-style-type: none">• factors underlying "accidents"• how chemicals cause injury• toxicity and hazard• examples of "accidents" in schools• layers of defence• how to spot dangers
1.00-2.00	<i>LUNCH</i>
2.00-2.30	Safe use of equipment <ul style="list-style-type: none">• Bunsen burner, tripod and gauze• cutting equipment• gas taps and hot equipment• glass tubing & fittings• gas cylinders• dry ice & liquid nitrogen• radioactive sources• Standard Operating Procedures
2.30-3.00	Biological safety <ul style="list-style-type: none">• microbiology• dissections• live animals• waste disposal
3.00-3.30	<i>AFTERNOON TEA</i>
3.30-4.30	Fire safety and emergency procedures <ul style="list-style-type: none">• types of fires• spills, bomb threat, terrorism• emergency procedures• video on fire fighting• types of fire extinguishers• use of fire extinguishers• emergency assistance• video on emergency evacuation

Day 2: Friday

8.30-9.00	Registration • tea/coffee
9.00-10.00	Globally Harmonised System (GHS) for chemicals <ul style="list-style-type: none"> • classification of chemicals • labelling of chemicals • safety data sheets (SDSs) • record keeping • physical, health, environmental hazards • hazard pictograms • signal words • hazard and precautionary statements
10.00-11.00	Dangerous chemicals <ul style="list-style-type: none"> • explosive chemicals • corrosive chemicals • lung-damaging chemicals • toxic chemicals • carcinogenic & teratogenic chemicals • allergenic chemicals
11.00-11.30	<i>MORNING TEA</i>
11.30-12.15	Safe storage and use of chemicals <ul style="list-style-type: none"> • storage systems for chemicals • maintaining a chemical register • Australian Standards • classes of Dangerous Goods • legal storage requirements • Codes of Practice
12.15-1.00	Disposal of chemical wastes <ul style="list-style-type: none"> • legal requirements • practical problems • examples of safe disposal • disposal methods • dealing with spills
1.00-2.00	<i>LUNCH</i>
2.00-2.30	Electrical safety <ul style="list-style-type: none"> • earthing • current balance switching • testing and tagging equipment • safe and unsafe situations • wiring basics • how to spot dangers
2.30-3.00	Guidelines for planning new experiments <ul style="list-style-type: none"> • sources of information • testing of experiments • sources of reliable information! • general considerations
3.00-3.30	<i>AFTERNOON TEA</i>
3.30-4.00	Systematic approach to safety <ul style="list-style-type: none"> • WHS management systems • prioritisation of safety activities • operations most "accident" prone • implementation of a management system • learning from "accidents" • WHS Committees • documentation • systematic "accident" prevention
4.00-4.30	Discussion of problems <ul style="list-style-type: none"> • current status of safety systems • major issues • questions on any topic • resolution of problems

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

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