



Science Practical Risk Assessment

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|--------------------------------------|---|---|--|-------|-------------------|--|
| School of Maths & Science | Practical Activity Title | What is Light? (MAS_SP_6001_what_is_light) | | | | Risk Assessment No. MAS_RA_6001_what_is_light_afan |
| Location | AA022 | | | | | |
| Assessment Performed By | Jane Morgan | Signature: | | Date: | 12.07.2007 | |
| Supported By | | Signature: | | Date: | | |
| Approved By | Brian Harris (H.o.S.) | Signature: | | Date: | 12.07.2007 | |
| Date of Re-assessment (if necessary) | Re-assess if any changes to procedure or equipment / chemicals are made. | | | | | |

| HAZARDS TO BE CONSIDERED | WHO MIGHT BE HARMED? | IS THE RISK ADEQUATELY CONTROLLED? | WHAT FURTHER ACTION IS NECESSARY TO CONTROL THE RISK? |
|------------------------------|----------------------|------------------------------------|---|
| 1. Slipping / Tripping | Staff | | |
| 2. Fire | Students | | |
| 3. Chemicals / drugs | | | |
| 4. Moving parts of machinery | | | |
| 5. Pressure systems | | <i>Please complete overleaf</i> | <i>Please complete overleaf</i> |
| 6. Electricity | | | |
| 7. Dust | | | |
| 8. Fumes | | | |
| 9. Manual Handling | | | |
| 10. Noise | | | |
| 11. Lighting | | | |
| 12. Computers | | | |
| 13. Any other hazards | | | |

(Please refer to Risk Assessment Matrix to indicate how Severity and Likelihood combine to produce a Risk score)
Likelihood x Severity = Risk Score, = Low, Medium or High risk

| Type & Source Of Hazard | Nature Of The Risk | Type Of Activity In Which Risks May Arise | Control Measures | Risk Rating | | | L M H | Any Further Control Measures Required |
|---|---------------------------------|--|---|-------------|---|---|-------------|---------------------------------------|
| | | | | L | S | R | | |
| Electrical | High Voltage Transformer | Member of staff connecting and switching on the transformer. | Transformer regularly checked by PAT testing. Students instructed not to not handle/adjust electrical apparatus. | 1 | 5 | 5 | L | |
| Hot apparatus | Bunsen burner | Burns from touching hot apparatus | Lab coats worn. Students warned of risk. | 2 | 2 | 4 | L | |
| Chemical hazard | Inorganic compounds - Irritants | Chemical compounds coming into contact with skin / eyes | Small quantities used Goggles and lab coats worn. Students informed of risk. Hands washed after use. | 2 | 3 | 6 | L | |
| Chemical hazard – conc. hydrochloric acid | Burns to eyes or skin | Dispensing conc acid Carrying out flame tests | Place watch glass containing conc acid for flame test in plastic tray to prevent spills. Technician to dispense acid as required. Must use gloves when dispensing acid. Acids to be handled in fume cupboard only Goggles and lab coats worn. Instruct students in dangers of acid and what to do in event of spill or accident | 2 | 4 | 8 | L | |

| Type & Source Of Hazard | Nature Of The Risk | Type Of Activity In Which Risks May Arise | Control Measures | Risk Rating | | | L M H | Any Further Control Measures Required |
|-------------------------|--|---|--|-------------|---|---|-------------|---------------------------------------|
| | | | | L | S | R | | |
| Bunsen Flame | Risk burns/ clothes hair catching fire | Carrying out of flame tests | Students with long hair need to tie hair back. Buttons to lab coat to be done up. Bunsen burners to be turned only when needed. | 2 | 4 | 8 | L | |
| General hazard | Tripping | Walking around darkened laboratory. | Lamp placed in corner of room for some light. No obstructions placed on floor. Bags to be placed out of the way | 2 | 2 | 4 | L | |
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INDICATE WHAT FIRST AID ARRANGEMENTS ARE IN PLACE

A science technician (qualified first aid at work) shall be present during all science practical lessons.
First aid kit available in all science prep rooms (Physics AA021, Biology AA023, and Chemistry AA019).

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| Assessment performed by : (Please Print Name) | Jane Morgan | Position : | Assistant Afan Campus Manager/ Physics Lecturer |
| Date of Assessment : | 12th July 2007 | | |
| Signed : | | | |

| ACTION LIST RECOMMENDATIONS | Risk Rating | | | L M H | TO BE ACTIONED BY | DATE ACTION COMPLETED | SIGNATURE |
|--------------------------------|----------------|---|---|-------------|----------------------|--------------------------|-----------|
| | L | S | R | | | | |
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