

## RISK ASSESSMENT FORM

<b>Brief outline of Work/activity :</b>	Electronics Teaching and Assembly Work
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<b>Location :</b>	709, 712B Electronics teaching lab and Projects Lab. Rankine Building
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<b>Significant Hazards :</b>	Electric Shock due to tampering with or damaging electronic equipment Falls due to loose cabling or personal belongings Hazards associated with soldering (flying wire offcuts, sensitisation, lead poisoning, burns, fire)
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<b>Who may be Exposed to the Hazards :</b>	Students Staff School Pupils
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<b>Existing control Measures :</b>	<p>RCD protection is fitted in appropriate areas, non-RCD bench sockets are coloured red. Electrical equipment is given visual and PAT tests. Power cables Routed behind equipment Safety guidelines posted in lab for reference No food or drinks allowed in labs – notices posted Hooks provided for coats and bags, students advised about coats and bags in student’s safety handbook Soldering irons low voltage with heat resistant leads, the temperature drops back if not used for 5min. Students are trained in soldering to prevent hazards associated with poor working practices. Thin, pure copper (single / stranded) wire only is used for construction in the laboratory - this does not pose a significant hazard during cutting, being non brittle and (usually) insulated with soft plastic. Accordingly, although safety goggles are available, their use is non-mandatory. Exposure to rosin fumes which can cause sensitisation is the most likely hazard associated with soldering. Exposures is prevented by the mandatory use of solder with Colophony free flux. In practice the exposure to soldering fumes will generally be low due to good ventilation, fractional occupancy of benches and (typically) the low number of solder joints being made. Leaded solder is used but this poses little danger due to the small number of joints being made. Students should wash their hands after soldering. Danger of burns from soldering irons is small, and likely to be associated with trivial superficial scorching only. Danger of ignition is low as no solvents etc. are used in the laboratory. Soldering irons are housed in purpose-built stands to prevent accidental contact.</p>
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**Are risks adequately controlled** YES  NO

<b>If NO, list Additional Controls and Actions required</b>	<b>Additional controls :</b>	<b>Action by :</b>

<b>Completed by :</b>	<i>Name Chris Hardy</i>	<i>Signature</i>	<i>Date 9/02/2015</i>
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<b>Supervisor :</b>	<i>Name</i>	<i>Signature</i>	<i>Date</i>
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**Dates of reviews**