

# Risk Assessment - Electrical Safety: Safe use of Electricity in Studios

The people that might be harmed: Studioworks employees, contractors, public, artists

HAZARD	CONTROL
<p><b>Failure to maintain / manage electrical safety in a studio; resulting in system failure and / or defect, leading to injury.</b></p>	<ul style="list-style-type: none"> <li>• This risk assessment should be read in conjunction with the following BBC Studioworks documents:</li> <li>• <b>Arrangement Electrical Safety in Studios</b></li> <li>• <b>Risk Assessment Scenery Electrical Safety</b></li> <li>• All personnel responsible for electrical safety within a studio should ensure reference is made to the above documents.</li> </ul>
<p><b>Fire</b></p> <p><b>'Live' Electrical Parts Exposed</b></p> <p><b>Risk of electric shock injuries through faulty or poorly maintained equipment, inappropriate electrical supply and inappropriate use of equipment.</b></p>	<ul style="list-style-type: none"> <li>• The mains electrical supply in Studios is either 240 volts or 415 volts (three-phase).</li> <li>• Regular maintenance and inspection is carried out in line with legislation and guidance.</li> <li>• Maintenance and testing is carried out by the landlord and appropriate confirmation is sort.</li> <li>• The installation is adequately earthed.</li> <li>• Anyone using electrical equipment in the studio is competent to do so and holds the relevant training/ qualifications for the activity.</li> <li>• <b>No live working is to be undertaken on electrical systems.</b></li> <li>• Power must be isolated before works are carried out on electrical systems.</li> <li>• Equipment is selected specifically for its intended purpose, and an</li> </ul>

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	<p>adequate maintenance schedule put in place.</p> <ul style="list-style-type: none"> <li>• All portable equipment is maintained and tested in line with recommended schedule.</li> <li>• A visual inspection is undertaken before all equipment is used. Any equipment that does not pass this test is immediately removed from service.</li> <li>• RCDs must be used where appropriate - Where domestic 240v supply is provided, equipment should always be run through RCDs</li> <li>• All blue plugs are run through a circuit breakers</li> <li>• Weekly studio inspections are carried out to check condition of plugs, cabling etc.</li> <li>• All set items that have been constructed with electrical circuits and / or practical's installed must be to the latest electrical standard. Each separate set item with electrical equipment should have a plug provided and using the correct wiring arrangements.</li> <li>• The use of twisted bare conductors that have been taped together are not permitted within the studio. All terminations must be carried out using correct termination blocks and equipment.</li> <li>• All electrical equipment brought into the studio should be fit for purpose and have adequate maintenance and inspection regimes in place.</li> </ul>

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<p><b>Fire</b></p> <p><b>'Live' Electrical Parts Exposed</b></p> <p><b>Risk of electric shock injuries through faulty or poorly maintained equipment, inappropriate electrical supply and inappropriate use of equipment.</b></p>	<ul style="list-style-type: none"> <li>• Productions provide suitable information in advance as to expected electrical hazards on their production</li> <li>• Production should ensure that they enlist the services of a competent person who will be identified as the designated responsible person for the electrical system.</li> <li>• If the competent person leaves the studio, he / she should identify a deputy in his place, of whom must have access to the competent person at all times.</li> <li>• Productions and contractors to ensure that all portable electrical equipment is tested where appropriate and maintained in a safe condition.</li> </ul>