

**Temporary Electrical Installation Risk Assessment**

prepared by Pete Wintercrane on behalf Bigtopmania  
 viz/ marquee hire operations.  
 viz/ entertainment activities.  
 viz/ electrical kit hire and use.  
 viz/ electricity at work  
 viz/ electrical installation work

**NB;**

No formal pre-prepared risk assessment replaces the constant updating and decision making process being made by workers on the ground. Dynamic risk assessment is proffered by both management, sub contractors & workers.

**NB: Our work invariably falls under the scope of section 5 of BS7909. "Small /Simple events and activites requiring up to 6KVA.**

updated 25 March 2011

**To be read and adhered to in addition to guidelines./ references including; (non exhaustive nor exclusive).**  
 (nb; Much more guidance and Reg's info' available at HSE, BSI ,the IEE & the Electrical Safety Council with constant updates available.)  
 The Health and Safety at Work Act 1974 / manual handling regs/ Working at Height regs/ Noise Reduction regs.  
 Management of Health and Safety at Work Regs. 1992  
 Electricity at Work Regs 1989  
 P.U.W.E.R & L.O.L.E.R regs.  
 BS 7671: 2008 IEE 17 the Edition Wiring Regulations; Requirements for Electrical Installations  
 IEE 3rd ed.Code of Practice for inservice Inspection and Testing Electrical Equipment.  
 IEE BS 7671: 2008. On Site Guide.  
 Bs; 7909:2008 Code of Practice for temporary electrical systems for entertainment and related purposes.  
 HSE; 2004. Maintaining Portable and Transportable electrical Equipment  
 HSE:1997. Electrical Safety at Places of Entertainment  
 HSE; 2003. Electricity at Work; safe working practices  
 HSE; 1996; Maintaining portable electrical equipment in offices and other low risk environments  
 HSE:1997. Electrical Safety for Entertainers  
 HSE; 1999. The Event Safety Guide.

**notes on calculation of risk**

	<b>Determination of action</b>		risk rating	risk level
	<b>severity</b>	<b>probability</b>	<b>severity x probability</b>	<b>Priority Action ?</b>
no injury	1	improbable 1		
minor injury	2	remote 2	1-5	risk acceptable No action needed
reportable injury	3	possible 3	6-10	low priority. If reasonably practical
major injury	4	probable 4	11-15	medium priority Must take action
fatality	5	likely 5	16-25	high priority Must take action

**GENERAL RISKS: general work methods.**

NB> ELECTRICITY IS IHERENTLY DANGEROUS

**Un-Safe Working Practices** / kit may cause fatalities or serious injury to employees, sub contractor, other workers and general public. Work is only to be done according to competence and training, above which level it is unsafe & permissible to not do the work. More suitable, currently qualified persons are to undertake this work.

<b>Identifiable Hazard / Risk</b>	<b>Persons at risk</b>	<b>Control Measures and Safeguards</b>
slip and trip bending and lifting i.e.; Manual Handling	all	safety tool-box-talks before work activity starts re; personal responsibility for health and safety, welfare of self and others, objectives, methods, responsibilities etc.. try to keep working area tidy and constant awareness.
Equipment.	all	pre-activity checks and regular maintenance equipment suitable for needs.
Place of Work location of activity	all	ensure suitable location and check safe before commencing vocational risk assessment undertaken by organisers
electric fire	all	Vocational maintenance undertaken by management. sufficient space for activity to happen safely.
Presence of General Public or working with children and persons with special needs	all	Ideally work in public free zone. adhere to national guidelines & staff are police checked. experienced and qualified staff
Training for equipment use/work	all	Ensure adequate training/how to use safely and correctly and highlight that accidents can be caused by inappropriate behaviour.
Worker unfit/unsuitable/un-trained/ incorrectly dressed for activity	all	only work to levels personal competency Training/ Use of PPE; work skills appropriate to the participant advise suitable work footwear and clothing

**Specific Risks Associated with Electrical Safety**

**Operations and activities**

**Identifiable HAZARD**

Electric shock from "build" equipment whilst working with it.  
 e.g.; drills, power saws, catering equipment, computers. Work lights

Installation /removal of Temporary Electrical Equipment  
 e.g.; cables, lighting, sockets, pa systems, heating systems,

Use of installed electrics and kit.  
 e.g. before, during and after an event

**Temporary Electrical Installations and use of equipment.**

<b>Identifiable Harm</b>	<b>Persons at risk</b>	<b>Control Measures and Safeguards</b>	<b>Risk Level</b>	<b>Severity</b>	<b>Possibility</b>	<b>Risk Rating</b>	<b>ACTION</b>
shock ranging minor to death other injury, burns, fire	workers. others.	FOLLOW REG'S GUIDANCE AND LAWS in all operations with electrics.  Visually inspect pre-use and follow safe working practices. Use 110 v equipment. Ensure Power supply is safe and with RCD. Maintain and test equipment regularly according to regs., Only competent people to do such work.	medium. high	5	5	15	MUST FOLLOW SAFEGUARDS> competent worker ensure use correct equipment ensure use of PPE. follow regs. inherent danger if not followed.
shock ranging minor to death manual handling, etc trip hazards. working at height cuts, burns, fire.	workers. others.	Follow safe working practices. Pre-Plan & ensure power supply is safe & sufficient & equipment appropriat Only competent people to do work. Maintenance and inspection of kit as above Ensure kit installed safely, leaving no identifiable extra hazards. e.g.; use RCD's safe cable runs, safety chains when rigged at height Ensure correct earthing, take care with metal work and fittings. Only connect Live when fully satisfied safe system. Record findings.	medium high	5	3	15	as above
shock, burn, fire, trip,	public. workers.	test and ensure safety. Use marquee hire checklist/ sign off sheet. Visually check again before use/ constant vigilance and checking. awareness that extra items/ changes/(circuits changed.) Only competent people to use kit and no tampering/ changes advised. Advise key people of risks. Other persons or companies electrical kit may have been installed, Other persons kit must be similarly safe, tested and installed correctly.	medium/ high	5	3	15	as above