**Method Statement**

**Activity Earth Bonding**

**Location Theatre / Studio / Other Venues**

**Staff allowed Electrics Duty Staff Plus Nominated Supervisors**

**Students allowed** Year One once trained

 Year Two

 Year Three

# Risk Rating As detailed

**Date of creation:** 24/7/14 NP

**Reviewed** 22/7/15 NP

**Reviewed** 2/3/16 NP

**Reviewed** 18/4/17 NP

**Reviewed**  06/02/19 BC

**Reviewed** 11/02/20 BC

**Tasks, Associated Hazards, *Action to be taken to avoid hazards***

**1. Approved Tasks As itemised**

**2. Before All Tasks.**

*Ensure that you are wearing appropriate PPE and that your tools are secure.*

*You should follow all codes of practice regarding access equipment e.g. ladders. Check access equipment has valid test certificate and visually inspect before use.*

*Never attempt to re-wire or modify any equipment or electrical installation*.

*Check the area is clear of hazards or obstructions*

**3. Earth Bonding**

**Risk Rating** **B Staff member nominally supervising, more than one person present**

**To ensure effective operation of fusing and protection and avoidance of electric shock in cases of fault.**

*When electrical equipment is attached to a metallic scenic element or seating block, the metallic structure must be bonded to the earth conductor in the building.*

*The bonding should be done with a suitable earth cable, at least 2.5mm2 cross section.*

*The bond should be attached to the metallic structure with a proprietary bonding strap, or other secure conductive fitting*

*Metal work should be clean and free of paint at the attachment point.*

*The bond should be attached to an earth point on a distribution panel, or via an earth pin only plug in an electric socket.*

*The bond should be identified with green and yellow colour coding as an earth cable.*

*Cable running across walkways should be securely taped to the floor.*

*An electrical continuity tester should be used to check that the earth path is good and of low resistance (less than 0.5 Ohms)*

*Additional bonding within the structure should be applied in order that all parts in contact with electrical equipment are bonded together and /or to earth.*