

Service, test, inspection and NICEIC certification procedure for theatre lighting installations

It can be a mine field for duty holders to fulfill their health and safety requirements. Experience has shown that stage lighting and audio systems especially within educational establishments have in the past been modified and repaired by well-meaning individuals with limited electrical and mechanical knowledge. These performance areas are high risk and without thorough inspection and testing there is potential risk to staff, students and the public. When we discuss periodic inspections with clients their normal response is we have the entire site tested every five years, however upon further investigation in nearly every instance we have found that the main electrical contractor only tests the electrical supply to the stage lighting dimmers and goes no further. Therefore these systems often get missed out on this routine test. Specialist experienced contractors who understand these complex systems are required to undertake this additional work.

Overview

When using our service it will not only help you comply with your duties under the Electricity at Work Act but preventative maintenance will provide you with a reliable, frustration free system and will extend the life of your equipment.

Procedure

All our work complies with the current edition of BS7671 'The Requirements for Electrical Installations' with the following additional work -

Check the adequacy of the electrical supply and over current device protecting the theatre lighting system

Service of dimming equipment – clean outer casings, removal of covers, internal clean removing the build up of dust, inspection of circuit boards and components, check supply terminations and test RCD devices if applicable.

Visual inspection of accessible cable management systems and internally wired lighting bars.

Internal inspection and adjustment of ALL accessible terminal boxes, multi-socket boxes and patch bays.

Internal inspection an adjustment of at least 25% of socket outlets.

As required by BS 7671

Resistance check to EVERY socket outlet to confirm the continuity of the circuit earth.

Visual and mechanical inspection of the socket outlets.

Insulation resistance between live conductors and earth

Earth loop impedance readings are calculated for each socket outlet

Polarity and functional dimmer / patch circuit check at every socket outlet

Legalities

A venue specific summary service report will be provided.

Full NICEIC certification including additional circuit schedules and results for all outgoing dimmer circuits is provided.

We will also complete a CAD drawing of the socket outlets within the venue.

Extras

Service, repair and refurbishment of theatre lighting systems.

We also carry out Electrical testing, inspection and certification of complete venues

Interim service and functional system inspections of lighting, audio and video systems

Service and PAT testing

We can assist in the completion of the venue risk assessments.

We get to know your system and with our experience, knowledge and dedication to our job we will always discuss any faults and look for the most cost effective remedial action.

