

Overview

This standard is about checking practical equipment against the lighting list, installing fixtures and fittings, and installing props equipment for the shoot. This standard also covers assessing lighting requirements, identifying the power requirements, and installing and testing fluorescent lighting.

This standard covers the knowledge of and operating within the electrical standards and approved codes of practice with codes BS7671 and BS7909.

This standard is for those working as Lighting Technicians, Best Boys and Gaffers.

Performance criteria

You must be able to:

1. co-ordinate and confirm electrical requirements with the person responsible for the lighting, prior to commencing with the installation
2. assess and confirm that equipment is fit for purpose and safe for use
3. ensure that the equipment meets insulation resistance and loading requirements
4. ensure that the equipment is electrically protected, earthed and fused
5. test the equipment and installation for electrical and operational safety prior to use
6. assess and meet the power requirements for the installation
7. assess the power and compatibility of the different types of fluorescent ballasts in use
8. identify potential hazards, and report these to the responsible person
9. find and remedy any faults with the equipment and installation
10. install fixtures and fittings, and ensure that they meet health and safety requirements
11. power up the equipment prior to use to ensure that it meets the production's requirements
12. use all practical fittings and fixings including specialty lighting and wiring at the correct design ratings
13. utilise wiring systems for all types of neon and fluorescent tubes
14. identify and label any nonstandard voltages
15. operate the equipment / installation
16. instruct others in the safe use of any equipment

Knowledge and understanding

You need to know and understand:

1. the relevant health and safety regulations 2. the relevant electrical standards and codes of practice and how to apply these 3. the importance of planning practical wiring and systems to take account of phasing and loading 4. how to leave enough scope for adjustment to the practicals once fitted 5. the importance of knowing which cable and connectors are suitable for the use required 6. the differences between series and parallel wiring, and how to use fusing, the use of circuit breakers, and when to use Residual Current Devices (RCDs) 7. how to check that the intended property department equipment is compatible with the available electrical supply, and that it will function as intended 8. when and how to test equipment and installation to comply with regulations 9. how to identify, prior to use, that old equipment required for use can be made to conform with the relevant electrical standards and codes of practice 10. the implications of power factor correction particularly fluorescent lighting 11. how to fit and use lighting, including fluorescent lighting and starting systems 12. how to find and remedy any faults with the equipment and installation 13. how to use specialty lighting e.g. neon, LED, laser and starting systems 14. how to use extra low voltages up to 50V AC or 110V DC 15. how to provide protection for the sub-circuit connection 16. how to restore equipment to its original specification after use 17. the importance of ensuring that the installation represents no danger to the crew or performers 18. how to instruct others in the safe use of the equipment when performers or unqualified personnel are expected to operate it

SKSL7



Install wiring for practicals and equipment

Developed by	ScreenSkills
Version Number	2
Date Approved	29 Mar 2020
Indicative Review Date	30 Mar 2024
Validity	Current
Status	Original
Originating Organisation	ScreenSkills
Original URN	SKSL10
Relevant Occupations	Arts, Media and Publishing, Crafts, Creative Arts and Design, Media and Communication, Performing Arts, Skilled Trades NEC, Skilled Trades Occupations
Suite	Lighting for Film and TV
Keywords	lighting; practicals; power requirements; faults; health and safety regulations; electrical supply; wiring;
