

SUMEDD03

## Endorse the Positioning, Fixing and Fitting of Electrical Wiring Systems, Wiring Enclosures, Equipment and Accessories In Dwellings In Accordance with Building Regulations



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### Overview

This standard is for a person required to endorse the positioning, fixing and fitting of electrical wiring systems, wiring enclosures, equipment and accessories in accordance with Building Regulations (England and Wales)

This standard is about complying with the correct procedures and instructions to endorse the positioning, fixing and fitting of wiring systems, wiring enclosures, equipment and accessories

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### Performance criteria

#### To meet the standard you must show that you can:

#### *You must be able to:*

- P1 adhere to agreed procedures to ensure the co-ordination of site services and the activities of other trades
- P2 confirm that safe isolation has been carried out in accordance with approved industry regulatory procedures and practices before the positioning, fixing and fitting of electrical wiring systems, wiring enclosures, equipment and accessories is undertaken
- P3 confirm that before work on electrical wiring systems, equipment and accessories that a supply is not present using industry approved methods.
- P4 endorse that the measurements and mark out of all locations for electrical wiring systems, wiring enclosures and equipment meet the electrical installation work specification and are in accordance with relevant electrical regulations and Building Regulations (England and Wales).
- P5 confirm that the positioning, fixing and fitting of the wiring systems, wiring enclosures, electrical equipment and accessories are safe and in accordance with relevant electrical regulations, Building Regulations (England and Wales), manufacturers' instructions and the electrical installation work specification.
- P6 report to the relevant people, in keeping with agreed procedures, those variations to the planned programme of work that may:
  - P6.1 have the potential to be dangerous,
  - P6.2 effect the installations fit for purpose status
  - P6.3 have a resource implication.
- P7 confirm that the work that has been carried out meets the requirements of the electrical installation work specification
- P8 ensure that portable tools are:
  - P8.1 used safely in accordance with approved codes of practice
  - P8.2 used in accordance with manufacturer's instructions
  - P8.3 maintained correctly
  - P8.4 fit for purpose

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### Knowledge and understanding

**In order to endorse the positioning, fixing and fitting of electrical wiring systems, wiring enclosures, equipment and accessories in accordance with Building Regulations (England and Wales)**

*You need to know and understand:*

- K1 the authority and procedures for co-ordinating information on electrical and non-electrical site services.
- K2 the advantages, disadvantages and limitations of methods and equipment used for measuring, marking out and cutting wiring systems and wiring enclosures.
- K3 the advantages, disadvantages and limitations of methods of positioning and fixing electrical wiring systems, wiring enclosures and equipment
- K4 the advantages, disadvantages and limitations of methods of fabricating wiring enclosures.
- K5 organisational procedures for reporting variations to work schedules and completed work
- K6 methods of carrying out routine maintenance on portable tools

**you should know and understand the following aspects relating to health and safety:**

*You need to know and understand:*

- K7 industry approved practices for confirming a supply is not present
- K8 the importance of using safe, fit for purpose tools for specific jobs
- K9 the significance and role of the Relevant People
- K10 the risks associated with positioning and fixing electrical equipment including lifting, handling and fixing

**With regard to Principles and theory you should know and understand as relevant:**

*You need to know and understand:*

- K11 HSE Memorandum of guidance on The Electricity at Work Regulations (HSR 25);
- K12 Building Regulations (England and Wales)
- K13 British Standard 7671:2008;
- K14 IEE On-Site Guide to BS7671:2008 or equivalent.
- K15 Electricity Safety, Quality and Continuity Regulations 2002
- K16 the principles of electrical theory and installation which allow for the safe positioning, fixing and fitting of electrical wiring systems and equipment

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### Additional Information

#### Glossary

These National Occupational Standards identify the level of competence that is required by individuals who have the responsibility on a day-to-day basis for the safety, technical standard and quality of “Full Scope” and/or “Defined Scope” electrical installation work in “Dwellings”

1. Electrical Installation Work in a “**Dwelling**” includes work in;
  - 1.1. Houses or flats
  - 1.2. “Dwellings” and business premises that have a common electrical supply – e.g. shops or public houses with a flat/living quarter as part of the main structure
  - 1.3. Common access areas in blocks of flats such as corridors and staircases
  - 1.4. Shared amenities of blocks of flats/bedsits such as laundries, kitchen or WC
2. These National Occupational Standards **DO NOT** apply to a “room (s) for residential purposes” which is used by one or more persons to live and sleep in, including rooms in hotels, hostels, boarding houses, halls of residence and residential homes.”
3. These National Occupational Standards **APPLY** to electrical installations that are intended to operate at low or extra-low voltage (BS7671) and are;
  - 3.1. in or attached to a “Dwelling”
  - 3.2. in the common parts of a building serving one or more “Dwellings”, but excluding power supplies to lifts
  - 3.3. in a building that receives its electricity from a source located within or shared with a dwelling
  - 3.4. in a garden or in or on land associated with a building where the electricity is from a source located within or shared with a “Dwelling”
4. Electrical Installation Work is the design, installation, inspection and testing of electrical systems and equipment in “Dwellings”, as a whole system or part thereof located on the consumers side of the electricity supply. Electrical systems and equipment includes;
  - 4.1. Equipment - apparatus/components, accessories switch-gear, distribution panels, consumer units, control systems, cables/cable carriers and luminaires that are fit purpose for an electrical installation in a “Dwelling”
  - 4.2. Wiring systems – An assembly made up of cable or busbars and parts which secure and, if necessary, enclose the cable or busbars, for example multi-core and single core cables with PVC, XLPE or LSF insulation and sheathing, M I cables with or without PVC/LSF sheathing and SWA cables with PVC, XLPE or LSF insulation and sheathing, conduit, trunking and tray
  - 4.3. Accessories - devices, other than current-using equipment, associated with such equipment or with the wiring of an installation
  - 4.4. Appliance - an item of current-using equipment other than a luminaire or an independent motor

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5. The categories of Electrical Installation Work in “Dwellings” are;
  - 5.1. Full Scope (Level A) “Electrical Installation Work” includes the design, installation, inspection and testing of electrical installation work that is associated with dwellings and is intended to operate at a voltage that does not exceed low-voltage
  - 5.2. Defined Scope (Level B) “Electrical Installation Work” that is limited to the design, installation, inspection and testing of defined electrical installation work intended to operate at a voltage that does not exceed low-voltage that is associated with dwellings and is undertaken in connection with, or ancillary to some other work
6. Defined Scope Electrical Installation Work in “Dwellings” can be;
  - 6.1. Plumbing
    - connection of an “Appliance” flex into a fused Spur Unit
    - additions to and extensions of certified fixed wiring systems
    - replacement of accessories and equipment – e.g. double-pole switch for a shower-unit to a pre-installed supply cable/outlet
  - 6.2. Gas installation work (Similar to plumbing)
  - 6.3. Installation of oil-fired combustion appliances;
  - 6.4. Installation of solid fuel burning combustion appliances;
  - 6.5. Installation or refurbishment of kitchens, bathrooms or bedrooms;
  - 6.6. Stair-lift installation work;
  - 6.7. Air conditioning installation work;
  - 6.8. Installation of domestic extractor fans;
  - 6.9. Installation of security systems;
  - 6.10. Installation of telecommunications systems;
  - 6.11. Installation of door or gate entry systems;
  - 6.12. CCTV systems;
  - 6.13. Property maintenance.
  - 6.14. Spa bath installations
  - 6.15. Swimming pool installations
7. A Competent Person is a person with sufficient technical knowledge and competence to undertake the identified “Electrical Installation Work” in “Dwellings” in terms of preventing danger, the risk of injury and be able to render “Electrical Installation Work” fit for purpose in terms of the identified scope of work
8. Qualified Supervisor - a competent person with specific responsibility on a day-to-day basis for the safety, technical standard and quality of “Full Scope” electrical installation work in “Dwellings”
9. Responsible Person - a person who is competent to do electrical work and has specific responsibility on a day-to-day basis for the safety, technical standard and quality of “Defined Scope” electrical installation work in “Dwellings”
10. **Principal Duty Holder** - can be a person who is appointed by the enterprise to have responsibility for the maintenance of the overall standard and safety of electrical installation work in “Dwellings”

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**Suite** Ensuring the Compliance of Electrical Installation Work in Dwellings with the Building Regulations (England & Wales)

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