# **Before Use Inspection of Electrical Test Equipment**

## Objective

To identify the checks that must be carried out before test equipment can be used. Types of equipment are:

- test lamps
- voltmeters •
- portable RCDs used for fault finding / maintenance activities •
- insulation resistance testers •
- ohmmeters •
- fault loop impedance testers
- **RCD** timing testers •
- multimeter
- Phase rotation meters.

#### Method

Any item that is not in-test or does not indicate in an acceptable manner will not be used.

#### General

Test equipment is divided into a number of categories depending on the situation and possible fault current that could occur at the test point. Test leads that are supplied with a particular type of instrument are not to be used on an instrument with a different category. Categories are:

- Installation Category I: Relates to signal level, special equipment or parts of equipment, • telecommunications, electronic and similar equipment. Impulse withstand voltage: 1500V.
- Installation Category II: Relates to the local level, appliances, equipment sub circuits, portable . equipment etc. Impulse withstand voltage: 2500V.
- Installation Category III: Relates to the distribution level, main switchboards etc. Impulse . withstand voltage: 4000V.
- Installation Category IV: Relates to the primary supply level, overhead lines etc. (unprotected • mains on the supply side of the service fuses). Impulse withstand voltage: 6000V.

If faulty equipment is identified, raise this with your line manager to be replaced.

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For all test methods, ensure leads are in good working order before testing by performing an adequate test, such as a visual check and testing for continuity.

Note: Any equipment that has been marked out of service or out of date shall not be used until repaired and/or calibrated by a qualified person.

# **Test lamps**

Test lamps will be tested to prove they are in proper working order before and after each use. Test lamps are only to be used to identify voltage when a circuit protective device of 100 amps or less protects the electrical equipment being tested.

# Voltmeters

Voltmeters used to identify whether voltage is present shall be tested to prove they are in proper working order before and after each use.

When a voltmeter is used to measure voltage (against identifying whether voltage is present) the test tag on the instrument shall be checked to ensure the instrument is in-test.

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# Portable RCDs used for fault finding / maintenance activities

Before being used the test button will be pressed to ensure the instrument is working and the test tag will be checked to ensure the instrument is in-test.

#### Insulation resistance testers

Before use the test tag will be checked to ensure the instrument is in-test.

#### Ohmmeters

Before use the test tag will be checked to ensure the instrument is in-test.

## Fault loop impedance meters

Before use the test tag will be checked to ensure the instrument is in-test.

# **RCD timing testers**

Before use the test tag will be checked to ensure the instrument is in-test.

#### Multimeter

Before use the test tag will be checked to ensure the instrument is in-test.

#### **Phase rotation meters**

Phase rotation meters will be inspected to prove they are in safe working order before each use.

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