

**DANGEROUS SUBSTANCES ACT 1972**

**DANGEROUS SUBSTANCES (RETAIL & PRIVATE PETROLEUM  
STORES) REGULATIONS 1979 AS AMENDED**

**FORM OF APPROVED ELECTRICAL TEST AND INSPECTION CERTIFICATE  
UNDER REGULATION 24(3)**

**LIMERICK CITY AND COUNTY FIRE AUTHORITY**

**Electrical Installation - Inspection and Test Certificate**

Name of Retail/Private Petroleum Store: .....

Address of Retail/Private Store: .....

Date of Inspection: .....

Electrical Contractor's Name .....

Registration Number .....

Address .....

Contractor's Stamp

Tel. No ..... Fax No. ....

Email .....

"I hereby certify that the electrical installation at the above store appertaining to the complete electrical apparatus in the hazardous areas at the store has been tested and inspected by me and complies in all respects to the requirements of the Dangerous Substances (Retail & Private Petroleum Stores) Regulations, 1979 as amended. The test and inspection includes all electrical apparatus in hazardous areas and includes such areas within the vicinity of vent discharge pipelines and tank delivery areas or other hazardous areas, where applicable".

Signed .....

Qualification/Competency : .....Date: .....

**This certificate may be required by an authority responsible for enforcement of fire safety or other safety legislation. The recipient of this certificate might rely on the certificate as evidence of compliance with legislation. Liability could arise on the part of any organisation or person that issues a certificate without due care in ensuring its validity.**

## RESULTS OF TESTS

### Insulation Tests

Section: .....

L to E	Megohms	Is it satisfactory?	Yes/No
N to E	Megohms	Is it satisfactory?	Yes/No
L to N	Megohms	Is it satisfactory?	Yes/No

Section: .....

L to E	Megohms	Is it satisfactory?	Yes/No
N to E	Megohms	Is it satisfactory?	Yes/No
L to N	Megohms	Is it satisfactory?	Yes/No

If there are more sections please list separately (by way of attachment if required).

### Earth Tests

Details of method of Earthing (TN-S, TN-C, TT, Other) (Circle applicable type)

If 'Other' give details: .....

Operation of RCD Is it satisfactory? Yes/No

### Earth Loop Impedance Test

From Consumer's earth terminal ..... ohms Is it satisfactory? Yes/No

Earth Continuity from Consumer's earth terminal to:

(i) Each Petrol Pump Is it satisfactory? Yes/No.

(ii) All other earthed metalwork Is it satisfactory? Yes/No.

### Bonding

(i) Is the bonding between the Consumer's earth terminal and the main water pipe at point of entry satisfactory? Yes/No

(ii) Is the bonding between the Consumer's earth terminal and gas pipe (where applicable) satisfactory? Yes/No

### Declaration

I have found the electrical installation at the above premises to be intrinsically safe and satisfactory in all respects.

Signed .....

Qualification/Competency: ..... Date: .....

**Extract of Regulation 24(3)**

"Arrangements for the inspection and testing at intervals not exceeding 3 years by a competent person of all electrical apparatus located in a hazardous area and of all parts of every circuit of such apparatus, including:

- (a) the verification of polarity,
- (b) the effectiveness of the earth loop impedance,
- (c) the conductance of the earth conductor and earth plate or earth rods,
- (d) the effectiveness of every earth-leakage circuit breaker,
- (e) the insulation resistance of every circuit, and
- (f) the suitability, effectiveness and condition of all cables, switches, fuses, plugs and socket outlets having due regard to the other provisions of this Regulations, and a certificate in such form as may be approved by the licensing authority, of the results of every such inspection and test and shall be kept available by a licensee for inspection by the Licensing Authority".

**References:**

- ◆ Irish Standard Specification I.S. EN 50014: 1998 entitled 'Electrical Apparatus for Explosive Atmospheres: General Requirements' published by the National Standards Authority of Ireland,
- ◆ Irish Standard Specification I.S. EN 50015: 1994 entitled 'Electrical Apparatus for Explosive Atmospheres: Oil Immersion 'o' published by the National Standards Authority of Ireland,
- ◆ Irish Standard Specification I.S. EN 50016: 1996 entitled 'Electrical Apparatus for Explosive Atmospheres: Pressured Apparatus 'p' published by the National Standards Authority of Ireland,
- ◆ Irish Standard Specification I.S. EN 50017: 1994 entitled 'Electrical Apparatus for Explosive Atmospheres: Powder Filling 'q' published by the National Standards Authority of Ireland,
- ◆ Irish Standard Specification I.S. EN 50018: 1994 entitled 'Electrical Apparatus for Explosive Atmospheres: Flameproof Enclosure 'd' published by the National Standards Authority of Ireland,
- ◆ Irish Standard Specification I.S. EN 50019: 1994 entitled 'Electrical Apparatus for Explosive Atmospheres: Increased Safety 'e' published by the National Standards Authority of Ireland,
- ◆ Irish Standard Specification I.S. EN 50020: 1994 entitled 'Electrical Apparatus for Explosive Atmospheres: Intrinsic Safety 'i' published by the National Standards Authority of Ireland,
- ◆ Irish Standard Specification I.S. EN 60079: Part 10: 1996 entitled 'Electrical Apparatus for Explosive Gas Atmospheres – Part 10: Classification of Hazardous Areas' published by the National Standards Authority of Ireland,

- ◆ The Electro-Technical Council of Ireland 'Guide to the Selection of Electrical Apparatus for Use in Potentially Explosive Atmospheres' (Guide G6), as amended, and
- ◆ The Electro-Technical Council of Ireland 'National Rules for Electrical Installation in Potentially Explosive Atmospheres' Part 6.1, as amended.

The equipment used should be of a type certified as suitably explosion-protected by an accredited or otherwise recognised testing and certifying body. The equipment should bear the mark and certification number issued by the body and, in the case of equipment marketed under the EEC Explosive Atmospheres Directives [see European Communities (Electrical Equipment for Use in Potentially Explosive Atmospheres) Regulations, 1981 [S.I. No. 61 of 1981] as amended, the distinctive European Community mark



Where the certification number on the equipment is followed by an X, special installation conditions apply and the certification documents should be studied before the equipment is installed.