

Testing for Compliance with the Low Voltage Directive (LVD)

CE Marking and Directives

Applying the CE marking a product for sale in Europe and issuing a Declaration of Conformity is a manufacturer's assertion that a product meets the requirements of all applicable European Directives.

For electrical and electronic equipment and systems these most commonly include; the Electromagnetic Compatibility (EMC), Low Voltage Directive (LVD) and Radio Equipment Directive (RED). Testing to the relevant standards demonstrates that the products conform to these Directives.

What is Covered by the Low Voltage Directive?

The Low Voltage Directive (LVD) 2014/35/EU (which superseded 2006/95/EC) is a CE Marking Directive:

- The LVD is applicable to electrical equipment designed for use with a voltage rating of 50 – 1000Vac or 75 – 1500Vdc.
- It is also called up under the Radio Equipment Directive (RED) 2014/53/EU.
- Exclusions include; equipment for use in an explosive atmosphere, radiology, lifts, electricity meters, domestic plugs and sockets, and electric fence controllers.
- Equipment within the scope of the Medical Devices Directive or Machinery Safety Directive are excluded from the Low Voltage Directive.

Typical standards cover; labelling, flammability, input current, insulation, overload, temperature rise, abnormal tests, mechanical safety (e.g. sharp edges), instruction manual and access to live parts.

UKAS Accreditation



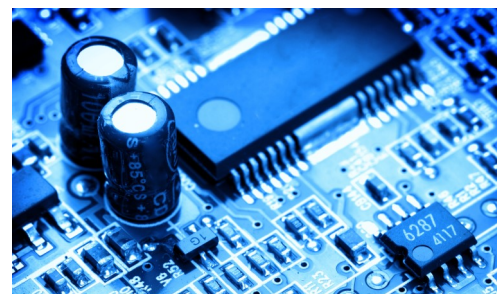
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All Eurofins York (formerly York EMC Services) Testing Laboratories are accredited by UKAS to ISO 17025 for electromagnetic compatibility testing under the Low Voltage Directive (LVD), ensuring that tests are consistently carried out correctly, giving our customers a high level of confidence in the results.



Why Use Eurofins York?

- Access to knowledgeable and skilled engineers from 4 locations across the UK
- Access to testing accredited by UKAS to ISO 17025
- Third party product assessment providing assurance to your customers
- We pride ourselves on being able to deliver solutions to our customers' problems



Why Carry Out Testing?

- For most electrical and electronic equipment sold in Europe, compliance with the Low Voltage Directive is a legal requirement under CE Marking. Testing to standards is the simplest way of demonstrating the necessary compliance
- Product liability risks can be reduced by ensuring due diligence has been applied to safety at the design stage
- Applying appropriate standards represents best practice for ensuring that the functional safety of a product not within the scope of the Low Voltage Directive (or other Directives), for example one-off products for internal use
- Proof of electrical safety is often a contractual requirement, even outside Europe

CB Certification – Global Market Access

York EMC Services operates as part of the IECEE CB Scheme as a CB Test Laboratory (CBTL) for the safety testing of electrical and electronic components, equipment and products.

The CB Scheme is a multilateral agreement and certification system that uses international standards and a mutual recognition agreement between Certification Bodies. The CB scheme reduces the need for duplicate testing, saving both time and money since it is in operation in more than 50 countries.

Under the CB scheme, a manufacturer can use a CB Test Report and CB Test Certificate to apply for National Certification in the member countries. The CB Scheme also provides a means to access countries that do not participate in the CB Scheme, but who nevertheless recognise the CB Certificate as evidence of compliance.

We can also provide access to Nationally Recognised Test Laboratory (NRTL) Certification by **MET Labs** in North America for access to North America and Canada and are certified to perform MET lab factory audits.

York Training Academy

Eurofins York has an international reputation for providing Training Courses for individuals and organisations. Our training portfolio ranges from one day introductory courses to advanced in-depth workshops.

Available at our UK-wide locations, as bespoke in-house courses, or through on-demand online training modules to watch in your own time, we are able to accommodate you and your colleagues changing needs.

For more information visit: <http://www.yorkemc.com/services/training/> or email training@yorkemc.com

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