

Safety Inspection Standards for Low-Voltage Complete Sets of Equipment



Overview

IEC Guide 116:2018 (E) is non-mandatory and complements ISO/IEC Guide 51 and establishes guidelines useful for achieving safety in low voltage equipment. This is in support of the Electrical. Gossen Metrawatt recommends the PROFITEST PRIME, an especially high-performance test instrument, for metrological testing of electrical protection measures for switchgear and controlgear assemblies. The instrument's scope of functions covers nearly the entire test spectrum for low-voltage systems. HSE and other organisations have produced guidance on electrical safety that is suitable for a wide range of industries and technical competencies. On 20 April 2016, a new version of the 1st Ordinance on the Product Safety Act (Regulation on Electrical Equipment - 1st ProdSV) came into effect.



Article Content

Feb 04, 2026

Low Voltage Directive (2014/35/EU)

Read this guide to learn what you need to know about the low Voltage Directive (2014/35/EU), and how to ensure your products comply.

Jan 13, 2026

Electrical equipment designed for use within certain voltage limits

When placing their electrical equipment on the market, manufacturers shall ensure that it has been designed and manufactured in accordance with the safety objectives referred to in Article 3 and set

Jun 13, 2026

European Union (EU) "Directive 2014/35 on .. electrical equipment ...

European Low Voltage Directive The European Union (EU) "Directive 2014/35 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment

Jan 25, 2026

The Electrical Equipment (Safety) Regulations 2016

This instrument will replace and repeal the current Regulations (the Electrical Equipment (Safety) Regulations 1994, (S.I. 1994/3260) as amended. The Regulations do not go beyond what is

Jun 01, 2026

Low Voltage Directive (LVD): An Essential Guide

A practical guide to Low Voltage Directive, including product scope, CE marking, DoC, labeling, standards, and lab testing requirements.

Jul 19, 2025

VOLUME 04: TESTING OF ELECTRICAL LV INSTALLATION i

Principal Executive Director Our motto of preparing these documents under the series "Safety in Electrical Low Voltage Installations" is to reduce fire cases due to electrical faults and electrocution

Nov 06, 2025

Low Voltage Installation Inspection | WO | TÜV

We test and inspect installations according to low voltage regulations as well as workplace health and safety standards. Our comprehensive inspection services

May 29, 2026

Guide to quality inspection of low voltage switchboards

Human factors The specificity and complexity of low voltage equipment, the numerous human interventions, and thus risk of errors are the

Dec 11, 2025

Complete Guide to Low Voltage Switchboard Rescue

Learn what an Australian Low Voltage Rescue Kit includes, required standards, testing intervals, and training to stay safe and compliant.

Nov 12, 2025

Control of Hazardous Energy (Lockout/Tagout)

OSHA's Lockout/Tagout Fact Sheet describes the practices and procedures necessary to disable machinery or equipment to prevent hazardous energy release. The OSHA standard for The Control

Jun 05, 2026

ASE Electrified Propulsion Vehicles (xEV) High-Voltage Electrical ...

ASE Electrified Propulsion Vehicles (xEV) High-Voltage Electrical Safety Standards, and its recommended practices are developed through a consensus standards development process

Feb 25, 2026

Low Voltage Directive (LVD) & IEC 62368-1: Complete

The Low Voltage Directive (LVD) & IEC 62368-1 is particularly noteworthy as it sets safety standards for audio-visual, information, and communication technology

Oct 29, 2025

AS/NZS 3760:2010: Electrical Equipment Safety

Typical examples of equipment covered by this Standard are: (h) Portable equipment, hand-held equipment and stationary equipment, designed for

Jul 25, 2025

Electrical equipment designed for use within certain voltage limits

(19) The free movement of electrical equipment for which harmonised standards do not exist should be achieved by applying the safety provisions of the international standards laid down by the

Jun 13, 2026

AS/NZS 3760:2010

This Standard specifies procedures for the safety inspection and testing of low voltage single phase and polyphase electrical equipment, connected to the electrical supply by a flexible cord or connecting

Oct 16, 2025

The all-new 5th Edition of the IET Code of Practice for In

The classifications for safety are now described as "energy source classes", which is subtly different to the previous methods of description. While to the end-user the

Aug 19, 2025

RG 105 Inspection of Low Voltage Electrical Installations

The field of inspection covered by this publication is low voltage electrical installations and associated electrical equipment as defined in BS 7671. 1.2 This publication has been produced by UKAS and

Aug 22, 2025

Designated standards: low voltage

Notices of publication and a consolidated list for designated standards for low voltage electrical equipment.

Aug 20, 2025

Safety Testing of Low-Voltage Switchgear and Controlgear Assemblies

After a transitional period of just over four years, professional planning, installation and testing of low-voltage switchgear and controlgear assemblies has been required to comply with the stipulations set

Jul 09, 2025

IEC GUIDE 116:2018

IEC Guide 116:2018 (E) is non-mandatory and complements ISO/IEC Guide 51 and establishes guidelines useful for achieving safety in low voltage equipment.

Sep 19, 2025

RG 105 Inspection of Low Voltage Electrical Installations

The Building Standards (Scotland) Regulations 1990, as amended British, European and International Standards relating to equipment which is the subject of inspection.

Nov 02, 2025

Guide for Source Inspection and Quality Surveillance of ...

A source inspection plan should be developed for projects that have materials or equipment which will be inspected for compliance to the contractual agreements, project specifications, drawings, codes

Jul 30, 2025

eCFR :: 29 CFR Part 1910 Subpart S -

These regulations are contained in §§ 1910.302 through 1910.330. Sections 1910.302 through 1910.308 contain design safety standards for electric utilization systems. Included in this category are all

Apr 05, 2026

Spotlight on: AS/NZS 3760:2022, In-service safety

Supporting compliance – Aligns with safety regulations and workplace standards.
Enhancing performance – Ensures electrical equipment operates

Jul 07, 2025

Everything you need to know about mandatory low-voltage inspections

In this article, you will find all the information on inspections of low-voltage installations, including legal obligations, checkpoints and benefits. What is a low voltage installation inspection and why is it

Jan 25, 2026

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Profit from low voltage safety and efficiency with comprehensive inspection Let our experienced network of international experts conduct inspection and testing to

Nov 13, 2025

Low Voltage Directive

Whether you're a manufacturer or authorized representation placing low voltage electrical equipment on the EU market, you'll need to comply with the Low

Jan 10, 2026

Electrical inspection and testing

Provides guidance on electrical safety for electrical inspection and testing.

Contact Us

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