

Australian/New Zealand Standard™

**Safe working on or near low-voltage
electrical installations and equipment**



AS/NZS 4836:2011

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-044, Safe Working on Low-voltage Electrical Installations. It was approved on behalf of the Council of Standards Australia on 22 March 2011 and on behalf of the Council of Standards New Zealand on 1 April 2011. This Standard was published on 4 May 2011.

The following are represented on Committee EL-044:

Australasian Railway Association
Australian Council of Trade Unions
Australian Industry Group
Communications Electrical and Plumbing Union
Department of Building and Housing (New Zealand)
Department of Industry and Investment New South Wales
Department of Justice and Attorney General, Queensland
Electrical Contractors Association of New Zealand
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Australian/New Zealand Standard™

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-044, Safe Working on Low-voltage Electrical Installations to supersede AS/NZS 4836:2001, *Safe working on low-voltage electrical installations*.

This Standard incorporates Amendment No. 1 (May 2017). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide workers on low-voltage electrical installations and equipment with—

- (a) the principles of safe working practices; and
- (b) recommended procedures for safe working practices.

This edition of AS/NZS 4836 contains additional information on the following:

- (i) Principles of risk management, assessment of risk and risk treatment.
- (ii) Working with asbestos and PCBs.
- (iii) Working below ground level.
- (iv) Cutting cables and wiring enclosures.
- (v) Selection and use of test equipment.
- (vi) Selection and use of personal protective equipment (Table 9.2).
- (vii) Preservation of an incident scene.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

CONTENTS

	<i>Page</i>	
SECTION 1 SCOPE AND GENERAL		
1.1 SCOPE.....	5	
1.2 APPLICATION	5	
1.3 ACTS AND REGULATIONS	5	
1.4 ADDITIONAL REQUIREMENTS.....	5	
1.5 REFERENCED DOCUMENTS.....	5	
1.6 DEFINITIONS.....	8	
SECTION 2 PRINCIPLES OF RISK MANAGEMENT AND ASSESSMENT OF RISK		
2.1 GENERAL.....	11	
2.2 PRINCIPLES	11	
2.3 IDENTIFY THE HAZARDS	11	
2.4 ASSESSING AND PRIORITIZING THE RISKS	14	
SECTION 3 RISK TREATMENT		
3.1 APPLYING CONTROL MEASURES.....	16	
3.2 ISOLATION.....	19	
3.3 FAULT FINDING OR TESTING.....	24	
3.4 TESTING PLUG-IN ELECTRICAL EQUIPMENT	25	
3.5 WORK ON EXPOSED ENERGIZED CONDUCTORS OR LIVE CONDUCTIVE PARTS.....	25	
3.6 CUTTING CABLES OR WIRING ENCLOSURES	27	
3.7 REMOVING OUT-OF-SERVICE ELECTRICAL EQUIPMENT AND CABLES	27	
3.8 CONTROL MEASURES WHEN LEAVING WORK UNFINISHED	27	
3.9 RISK CONTROL FOR SPECIAL SITUATIONS	28	
SECTION 4 RE-ENERGIZATION OF ELECTRICAL INSTALLATIONS AND EQUIPMENT		33
SECTION 5 SAFETY EQUIPMENT AND TOOLS		
5.1 GENERAL.....	34	
5.2 INSULATED TOOLS AND EQUIPMENT.....	34	
5.3 PORTABLE ELECTRIC TOOLS.....	34	
5.4 LADDERS AND STEP LADDERS.....	35	
5.5 ELEVATING WORK PLATFORMS AND SCAFFOLDING	36	
5.6 USE OF INDUSTRIAL FALL-ARREST SYSTEMS AND DEVICES	36	
5.7 INSULATING BARRIERS, COVERS AND MATS.....	36	
SECTION 6 SAFETY OBSERVERS		
6.1 GENERAL.....	37	
6.2 GENERAL PRINCIPLES.....	37	
SECTION 7 TEST EQUIPMENT		
7.1 GENERAL.....	38	
7.2 SUITABILITY OF EQUIPMENT	38	
7.3 TEST EQUIPMENT VERIFICATION	39	

	<i>Page</i>
SECTION 8 TRAINING, QUALIFICATIONS AND COMPETENCE	
8.1 GENERAL.....	40
8.2 SUPERVISION	40
SECTION 9 PERSONAL PROTECTIVE EQUIPMENT	41
SECTION 10 ELECTRICAL INCIDENTS	
10.1 MEDICAL ATTENTION	43
10.2 PRESERVATION OF INCIDENT SCENE	43
10.3 REPORTING	43
APPENDICES	
A TYPICAL RISK ASSESSMENT FORM.....	44
B CASE STUDIES OF ELECTRICAL INCIDENTS	47
C ACTS AND REGULATIONS	50

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Australian/New Zealand Standard
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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard outlines principles and procedures of safe work, organization and performance on or near low-voltage electrical installations and equipment. It provides a minimum set of procedures, safety requirements and recommendations to manage the hazards associated with electricity, specifically arc blast, arc flash, electric shock and electrocution. Adopting these will provide a safe working environment for work on or near low-voltage electrical installations (see Clause 1.6.9) and equipment (see Clause 1.6.8).

1.2 APPLICATION

This Standard applies to all persons carrying out work on or near low-voltage electrical installations and equipment.

It is the responsibility of all persons to ensure that the work they are doing does not present a risk to themselves and others at the work site or at a remote location.

1.3 ACTS AND REGULATIONS

All employers and persons involved in the electrical industry have legal responsibilities under various Acts of parliament, associated regulations called up by an Act, or documents called up by an Act or regulation (collectively known as statutory requirements).

Details of some of these statutory requirements and the government agencies responsible for their administration are set out in Appendix C. It is the responsibility of employers to ensure that the latest versions of these documents and any other relevant occupational health and safety requirements are applied at all work sites.

1.4 ADDITIONAL REQUIREMENTS

Some work sites may be subject to additional requirements imposed either by company policy or by contractual arrangement.

1.5 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1270	Acoustics—Hearing protectors
1319	Safety signs for the occupational environment
1892	Portable ladders
1892.2	Part 2: Timber
2225	Insulating gloves for electrical purposes
2550	Cranes—Safe use
2550.10	Part 10: Elevating work platforms