

Australian Standard[®]

High-voltage live working

Part 1: General



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- Australian Services Union
 - CIGRE
 - Communications, Electrical and Plumbing
 - Consumers' Federation of Australia
 - Electrical Regulatory Authorities Council
 - Energy Networks Association
 - National Electrical and Communications Association
 - National Generators Forum
-

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High-voltage live working

Part 1: General

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PREFACE

This Standard was prepared by the Standards Australia subcommittee EL-052-01 High-voltage Live Working for Committee EL-052, Electrical Energy Networks, Construction and Operation.

The objective of this Standard is to set out the minimum standards for high-voltage live working to ensure the safety of electrical workers and the public.

This Standard is the first of a four Part series as follows:

AS

- 5804.1 Part 1: General (this Standard)
- 5804.2 Part 2: Glove and barrier work
- 5804.3 Part 3: Stick work
- 5804.4 Part 4: Barehand work

The intention of having four separate Parts to the Standard is to highlight the different methods of live work.

Part 1 of this series is an integral part of each of the other parts of the series and is intended to be read first.

The subsequent parts of this series are not intended be read alone, but always in conjunction with Part 1.

This Standard has its origins in the documents of the former Electricity Supply Association of Australia (ESAA) documents; HB ESAA LLM 01—2000, *Guidelines for live line barehand work*, HB ESAA LLM 02—2000, *Guidelines for live line stick work*, HB ESAA LLM 03—2000, *Guidelines for live line glove and barrier work* and ESAA ND/NL 04—1995, *Guidelines for use of helicopters for live line work*. All but ESAA ND/NL 04—1995 are now published as Energy Networks Association (ENA) documents.

Over time, changes in Australian Standards, industry standards and legislative requirements, as well as technological advances and other factors relevant to the information contained in this document, may affect the accuracy of the information contained in this document. Accordingly, caution should be exercised in relation to the use of the information in this document.

The terms ‘normative’ and ‘informative’ are used to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a standard, whereas an ‘informative’ appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

**Australian Standard
High-voltage live working****Part 1: General**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out the minimum industry requirements for the high-voltage work methods for—

- (a) glove and barrier work;
- (b) stick work; and
- (c) barehand work.

These requirements may be enhanced or supplemented, provided the risk assessment process associated with the change does not result in reduced safety standards.

SPECIFIC WORK PRACTICES AND MAINTENANCE AND TESTING REQUIREMENTS ARE SET OUT IN PARTS 2, 3 AND 4 OF THIS STANDARD. PARTS 2, 3 AND 4 SHALL BE READ IN CONJUNCTION WITH THIS PART 1.

This Standard does not constitute a high-voltage live work manual, nor does it set down high-voltage live work procedures and techniques. All procedures and techniques are to be developed by the network operator or service provider in accordance with the requirements in this Standard.

For the purpose of this Standard, works such as the following are not considered as high-voltage live work and are excluded from this Standard:

- (i) Low voltage live work.
- (ii) High-voltage switching operations.
- (iii) Load and voltage readings and phasing identification.
- (iv) The measurement of distances to high-voltage conductors.
- (v) The safe removal of foreign objects on electrical apparatus where there is no risk of electrical flashover.

NOTE: List items (i) to (v) are not a conclusive list of operational work excluded from this Standard but represents the work traditionally undertaken by authorized power company workers.

This Standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1.2 OBJECTIVES

The objectives of this Standard are to—

- (a) ensure that all live work is managed to achieve a high standard of safety for the live worker and the general public at the worksite;
- (b) achieve a high level of operational security for the electricity network;