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# Australian Standard 1931, Part 1—1976

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## HIGH VOLTAGE TESTING TECHNIQUES

Part 1—GENERAL DEFINITIONS,  
TEST REQUIREMENTS,  
TEST PROCEDURES  
AND MEASURING DEVICES

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**THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS** were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia  
Australian British Trade Association  
Australian Electrical Manufacturers Association  
Electricity Supply Association of Australia  
Electricity Supply Engineers Association of N.S.W.  
Railways of Australia Committee  
Testing Authorities  
The Institution of Engineers, Australia

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To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvement to published standards, addressed to the head office of the Association, are welcomed.

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**AUSTRALIAN STANDARD**

# **HIGH VOLTAGE TESTING TECHNIQUES**

## **Part 1**

### **GENERAL DEFINITIONS, TEST REQUIREMENTS, TEST PROCEDURES AND MEASURING DEVICES**

**AS 1931, Part 1—1976**

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## PREFACE

This standard was prepared by a subcommittee of the Association's Committee on Power Switchgear as a revision of AS C328—1965, which it accordingly supersedes.

It deals with general definitions, test requirements, test procedures and measuring devices for dielectric tests with direct, alternating, lightning impulse and switching impulse voltages, and tests with impulse currents. It describes testing procedures for dry tests, wet tests and artificial pollution tests, and introduces statistical evaluation of test results.

This part is based on IEC Publication 60, High Voltage Testing Techniques, Part 1 — General Definitions and Test Requirements; Part 2 — Test Procedures; and IEC document 42 (Central Office) 24, draft of Part 3 — Measuring Devices. Acknowledgement is made of the assistance received from these sources.

The second part of this standard, i.e. Part 2 — Application Guide for Approval Measuring Devices, based generally on international recommendations, is in the course of preparation.

This standard requires reference to the following Australian standards:

- AS 1018 Recommendation for Partial Discharge Measurements
- AS 1042 Direct-acting Indicating Electrical Measuring Instruments and Their Accessories
- AS 1243 Voltage Transformers for Measurement and Protection
- AS C329 Method for the Measurement of Voltage with Sphere-gaps (One Sphere Earthed).

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