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Australian Standard 2243, Part 7—1980

SAFETY IN LABORATORIES
Part 7—ELECTRICAL ASPECTS

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

Australian Atomic Energy Commission

Australian Institute of Petroleum Ltd

The Broken Hill Pty Co Ltd

Commonwealth Scientific and Industrial Research Organization

Department of Productivity

Department of Science and Technology

State Laboratories, Victoria

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AUSTRALIAN STANDARD

CODE OF PRACTICE FOR
SAFETY IN LABORATORIES
Part 7
ELECTRICAL ASPECTS

AS 2243, Part 7—1980

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PREFACE

This standard was prepared by the Association's Committee on Safety in Laboratories under the direction of the Chemical Standards Board. It represents the seventh part of the series on the subject of safety in laboratories, and it supplements the information given in the other parts. This standard is aimed at the provision of a sound, basic working knowledge of electrical safety in the laboratory situation and the encouragement of systematic procedures for preventing electrical accidents.

Other parts are as follows:

Part 1—General
Part 2—Chemical
Part 3—Microbiology
Part 4—Ionizing Radiations
Part 5—Non-ionizing Radiations
Part 6—Mechanical Aspects

In addition to the reference standards and publications listed in Appendix B, this standard makes reference to the following Australian standards:

AS 1076	Code of Practice for Selection, Installation and Maintenance of Electrical Apparatus and Associated Equipment for Use in Explosive Atmospheres (Other than Mining Applications)
AS 1188	Code for Safety of Electronic Equipment
AS 1848	Halogenated Hydrocarbon Type Portable Fire Extinguishers
AS 1895	Code of Practice for Guarding and Safe Use of Portable Electric Tools for Domestic Use
AS 2243	Code of Practice for Safety in Laboratories Part 4—Ionizing Radiations
AS 3000	SAA Wiring Rules
AS 3160	Approval and Test Specification for Hand-held Portable Electric Tools
AS 3190	Approval and Test Specification for Current-operated (Core Balance) Earth-leakage Devices
AS 3191	Approval and Test Specification for Electric Flexible Cords
AS C100	Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment
AS C109	Approval and Test Specification for Appliance Plugs and Appliance Inlet-sockets
AS C112	Approval and Test Specification for Plugs and Plug Sockets
AS C126	Approval and Test Specification for Extra-low Voltage Transformers
AS C167	Approval and Test Specification for Protective Isolating Transformers
AS	Laboratory Design and Construction for Safe Working Conditions*
SAA MP30	Report on Effects of Current Passing Through the Human Body

*In course of preparation.

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