## Australian Standard®

# SAFETY AND HEALTH IN WORKROOMS OF EDUCATIONAL ESTABLISHMENTS

This Australian standard was prepared by Committee SF/14, Safety in Workshops of Schools and Colleges. It was approved on behalf of the Council of the Standards Association of Australia on 20 December 1982 and published on 7 March 1983.

The following interests were represented on the committee responsible for the preparation of this standard:

Catholic Education Office

Confederation of Australian Industry

Department of Education, S.A.

Department of Employment and Industrial Relations (Commonwealth)

Department of Employment and Labour Relations, Qld

Department of Health, N.S.W.

Department of Industrial Affairs and Employment, S.A.

Department of Industrial Relations, N.S.W.

Department of Labour and Industry, Vic.

Department of Public Works, W.A.

Department of Technology and Further Education

Department of Works, Old

Education Department of New South Wales

Education Department of Victoria

Education Department of Western Australia

Electricity Supply Association of Australia

Metal Trades Industry Association of Australia

National Safety Council of Australia

Railways of Australia Committee

Safety Institute of Australia

**Review of Australian Standards.** To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

### Australian Standard®

## SAFETY AND HEALTH IN WORKROOMS OF EDUCATIONAL ESTABLISHMENTS

### **PREFACE**

This edition of this standard was prepared by the Association's Committee on Safety in Workshops of Schools and Colleges, at the request of the Safety Standards Board, to supersede AS 1485—1973.

This edition incorporates technical and editorial amendments identified as necessary during the application of the 1973 edition, and two additional sections covering graphic arts and catering.

The standard includes safe working practices for instructors and students in workrooms of educational establishments, advice on the administration of accident reporting and accident investigation, environmental factors, and safe working methods.

It covers specific areas where definite safety measures are required in the handling of harmful substances and contains details of particular processes, workrooms with metalworking and woodworking machinery, forging, welding, casting, automotive engineering, the use of ancillary plant and equipment, graphic arts processes and catering facilities.

Concern has been expressed that workshops of universities are unique and may not be covered by adequate Australian safety standards. In this regard, it is the committee's view that such 'workshops' are covered by this standard and AS 2243, Safety in Laboratories. Standards at present under development and pertinent to the subject will cover laboratory fume cupboards and laboratory construction.

#### © Copyright - STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

### **CONTENTS**

3

		Page			Page
FOREWORD		5	7.3 7.4	Portable Power Tools	17 18
SECTIO	N 1. SCOPE AND GENERAL		7.5	Grinding and Polishing Machine	18
1.1	Scope	6	SECTION	N 8. METALWORKING	
1.2	Purpose	6			
1.3	Referenced Documents	6	8.1	General	20
1.4	Definitions	6	8.2	Personal Safety	20
SECTIO	N 2. ADMINISTRATION		8.3	Lathes	20
DLC 1101	V. Z. ADMINISTRATION		8.4	Revolving Cutters	20
2.1	Introduction	7	8.5	Metal-cutting Guillotine	20
2.2	Safety Introduction	7	8.6	Power Hacksaw	20
2.3	Environment	7	8.7 8.8	Milling Machine	20 20
2.4	Injury Reporting	7	8.9	Shaping Machine	20
2.5	Accident Investigation	7	0.9	Trypiess	20
2.6	Responsibility	7	SECTION 9. WOODWORKING		
2.7	Participation	7	BECTION 7. WOOD WORKING		
2.8	Maintenance and Contract Work	7	9.1	General	21
CECTIO	ALC CENERAL REQUIREMENTES		9.2	Personal Safety	21
SECTIO	N 3. GENERAL REQUIREMENTS		9.3	Saws	21
3.1	Health Risks	Q	9.4	Thicknessers	22
3.1	Personal Safety	8 8	9.5	Spindle Moulders(Shapers)	22
3.3	Working Methods and Instructions	9	9.6	Hand-fed Planing Machines	22
3.4	Safety in the Use of Compressed Air	9	9.7	Lathes	22
3.5	First Aid	10			
3.6	Fire Precautions	10	SECTION 10. HARMFUL SUBSTANCES AND PROCESSES		
SECTIO	N 4. ENVIRONMENTAL FACTORS				
			10.1	General	24
4.1	General	11		Personal Safety	24
4.2	Size and Layout	11	10.3	Solvent Degreasing	24
4.3	Safety Signs	11		Pickling Steel Surfaces	24
4.4	Lighting	11	10.5	Electroplating and Anodizing	25
4.5 4.6	Heating and Ventilation	12 12		Vitreous Enamelling	26 26
4.7	Handling and Storage	12	10.7 10.8	Spraypainting/Coating	27
7.7	Tranding and Storage	12	10.8		28
SECTION 5. EQUIPMENT AND SERVICES			•		29
5.1	General	14	SECTION	N 11. FORGING	
5.2	Machinery Installation		2201101		
5.3	Machine Controls	14	11.1	General	30
5.4	Guarding of Machinery	14	11.2	Personal Safety	30
5.5	Electrical Installation	15	11.3	· · · · · · · · · · · · · · · · · · ·	30
5.6	Gas and Oil Fuel Installations	15	11.4	Heating Medium	30
5.7	Maintenance	15		Electrical Equipment	30
SECTIO	N 6. LABORATORIES		11.6	Handling and Storage	30
6.1	General	16	SECTION	N 12. WELDING	
6.2	Personal Safety	16			
6.3	Finish of Benches and Walls	16	12.1		
6.4	Access, Egress and Lockable Doors	16	12.2		31
6.5	Electrical	16	12.3	Gas Welding, Brazing and Flame	
6.6	Plumbing	16	10 (	Cutting	31
6.7	General Design of Fume Cupboards	16		Heating Medium	
6.8	Storage	16	12.5	Electric Welding	31
6.9	Handling of Glass	16	SECTION	N 13. FOUNDRY WORK	
6.10	Irradiating and Radioactive Equipment	16	SECTIO	VIS. POUNDAL WORK	
SECTION 7 FOLIDMENT IN CENEDAL USE			13.1	General	32
SECTIO!	N 7. EQUIPMENT IN GENERAL USE			Personal Safety	32
7.1	General	17	13.3		32
7.2	Hand Tools	17	13.4	Muffle Furnaces	32



	This is a free preview.	Purchase the e	entire publication	at the link below:
--	-------------------------	----------------	--------------------	--------------------

**Product Page** 

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation