



**Australian Standard®  
2214—1988**

**THE CERTIFICATION OF  
WELDING SUPERVISORS IN  
STRUCTURAL STEEL WELDING**



This Australian Standard was prepared by Committee WD/3, Welding of Structures. It was approved on behalf of the Council of the Standards Association of Australia on 15 January 1988 and published on 5 April 1988.

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The following interests are represented on Committee WD/3:

Association of Consulting Engineers Australia  
Australian Chamber of Commerce  
Australian Institute of Steel Construction Ltd  
Australian Welding Institute  
Australian Welding Research Association  
Bureau of Steel Manufacturers of Australia  
Confederation of Australian Industry  
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**AUSTRALIAN STANDARD**

**THE CERTIFICATION OF  
WELDING SUPERVISORS IN  
STRUCTURAL STEEL WELDING**

**Known as  
SAA STRUCTURAL STEEL  
WELDING SUPERVISORS  
CERTIFICATION CODE**

**AS 2214—1988**

First published as AS CA60—1970.  
Revised and redesignated AS 2214—1978.  
Second edition 1988.

**PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA  
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.**

ISBN 0 7262 4911 4

## PREFACE

This Standard was prepared by the Association's Committee on Welding of Structures, to supersede AS 2214—1978.

The preparation of this edition was undertaken at the request of the Australian Welding Institute for the purpose of updating the Standard and reviewing the requirement of the examination's type and duration. Other technical changes to the 1978 edition include the revision of the requirement for pre-examination and re-examination, and the addition of requirement for examination marking, and the validity of the certificate in line with AS 1796, *SAA Welder Certification Code*.

This Standard is directed towards the requirements of the structural steel welding industry for the certification of welding supervisors. It states the requirements which will be acceptable throughout Australia for the qualifying of personnel at approximately technician level who are required to supervise the welding of steel structures. Such supervision has as its objective the need to ensure that welding is performed according to the relevant codes and other specified requirements and is performed with safety.

The requirements of this Standard apply specifically to structural applications, but cognizance has been taken of the certification of welding supervisors in boiler welding with a view to the selection of a syllabus which will enable educational authorities to provide adequate facilities for the training of supervisors for either application.

The possession of a Welding Supervisor's Certificate should indicate the attainment of a high degree of knowledge of the theory of welding, the ability to use and apply relevant codes, a sound practical knowledge of welding and the ability and capacity to direct and supervise welding work in accordance with the application codes.

This Standard may require reference to a wide range of Australian Standards. Details of these are given in Appendix B.

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# STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard

### CERTIFICATION OF WELDING SUPERVISORS IN STRUCTURAL STEEL WELDING

**1 SCOPE.** This Standard sets out the requirements necessary for the granting of certificates to persons engaged in the supervision of arc welding and associated processes, including gouging and flame cutting, intended to form part of steel structures constructed in accordance with AS 1554, to designs in accordance with AS 1250, and where appropriate, to form part of other welded structures.

**2 REFERENCED DOCUMENTS.** A list with titles of the documents referred to in this Standard is given in Appendix C.

**3 DEFINITIONS.** For the purpose of this Standard, the definitions given in AS 2812 and the definition below apply.

**Examining Authority**—the authority responsible for the conduct of the examination including supervision and assessment of the written test (see Appendix A).

**4 BASIS OF CERTIFICATION.** The certification of a welding supervisor shall be based upon the candidate having the appropriate pre-examination qualifications prescribed in Clause 5, and passing the examination prescribed in Clause 6.

**NOTES:**

1. A person with welding/fabrication knowledge and experience acceptable to the Examining Authority may, without examination, be issued with a Supervisor's Certificate at the discretion of the Examining Authority.
2. A person holding a current Welding Supervisor's Certificate to AS 1796, Certificate 10, may be exempted from examination to Paper A of Clause 6.1(a).

**5 PRE-EXAMINATION QUALIFICATIONS.** Before undertaking the examination, each candidate shall submit to the Examining Authority satisfactory documentary evidence from within the industry that he is suitable for supervisory duties and that he has at least one of the following qualifications:

- (a) At least 3 years' approved experience as a welder first class in the medium to heavy steel fabrication industry and documentary evidence of the completion of a recognized course in welding supervision incorporating syllabus items 1 to 9 as set out in Clause 7.
- (b) At least 3 years' experience in the supervision or inspection of welding acceptable to the Examining Authority.
- (c) A certificate in engineering or metallurgy from a technical college or institute acceptable to the Examining Authority and at least 3 years' approved experience related to the practical application of welding.
- (d) Knowledge and experience considered by the Examining Authority to be acceptable.

### 6 SCOPE OF EXAMINATION.

**6.1 Type.** A welding supervisor's examination shall consist of a written theory examination.

**NOTE:** The educational standard of a person attempting the examination should be of such level as will enable him to answer the selected theory questions in essay form. In special cases, the Examining Authority may supplement the written examination with an oral examination.

The examination shall consist of two papers, viz A and B, based on the syllabus given in Clause 7, as follows:

- (a) *Paper A—welding theory and technology.* The candidate shall be examined on his knowledge of syllabus items 1 to 8.
- (b) *Paper B—application of welding theory.* The candidate shall be examined on his knowledge of and ability to apply welding theory to AS 1554 (syllabus item 9). For this paper only, the candidate is permitted to take AS 1554 into the examination room for his own use during the examination.

**NOTES:**

1. Papers A and B are known nationally by The Australian Welding Institute as papers 1 and 2B respectively.
2. Paper A is also common to AS 1796, certificate 10, having a supervisor's standard for general welding technology.

**6.2 Duration of examination.** The duration of examinations shall be as follows:

- (a) *Paper A.*
  - (i) Written examination ..... 3 h.
  - (ii) Oral examination ..... at discretion of the Examining Authority.
- (b) *Paper B.*
  - (i) Written examination—
    - A. candidates not exempted from Paper A ..... 1 h;
    - B. candidates exempted from Paper A ..... 2 h.
  - (ii) Oral examination ..... at discretion of the Examining Authority.

**6.3 Criteria for examination marking.** One hundred marks shall be allocated for each paper and the Examining Authority shall deduct marks for omission and errors. The minimum pass aggregate shall be 65 percent of the total number of marks allocated to the examination as a whole with a minimum of 60 percent in either paper.

**6.4 Re-examination.** Where a candidate fails in one of the papers in the examination, he may undertake another examination based on the syllabus relevant to the paper in which he failed, provided that he has obtained 50 marks for that paper and at least 65 marks for the other paper.

**6.5 Time, duration, and location for re-examination.** The time, duration, and location for the re-examination of the candidate in the event of failure shall be at the discretion of the Examining Authority.