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AS 3992:2020
(Incorporating Amendment No. 1)

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Pressure equipment — Welding and brazing qualification

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AS 3992:2020

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The following are represented on Committee ME-001:

Australasian Institute of Engineer Surveyors
Australian Aluminium Council
Australian Industry Group
Australian Institute for Non-Destructive Testing
Australian Institute for the Certification of Inspection Personnel
Australian Institute of Petroleum
Bureau of Steel Manufacturers of Australia
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Energy Networks Australia
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National Association of Testing Authorities Australia
Office of Industrial Relations, Qld
SafeWork NSW
SafeWork SA
Victorian WorkCover Authority (WorkSafe Victoria)
Weld Australia
WorkSafe Division — Department of Mines, Industry Regulation and Safety (DMIRS), WA

This Standard was issued in draft form for comment as DR AS 3992:2019.

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Pressure equipment — Welding and brazing qualification

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Preface

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee ME-001, Pressure Equipment, to supersede AS/NZS 3992:2015, *Boilers and pressure vessels—Welding and brazing qualification*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

This Standard incorporates Amendment No. 1 (February 2023). The start and end of changes introduced by the Amendment are indicated in the text by tags including the Amendment number 1.

The objective of this Standard is to reduce misunderstanding, costs and delays in qualifying welding, avoid unnecessary duplication of testing, promote greater confidence in reciprocal acceptance of approved procedures, and improve safety. It also aims for greater alignment with ASME and ISO Standards, and to be consistent with the current work health and safety laws.

The inclusion of roles and responsibilities in AS 3992:2020, was approved by the Standards Development and Accreditation Committee on 2 May 2019, as a one-off exemption to the directives of Standardization Guide 009: Preparation of Standards for Legislative Adoption.

This Standard unifies and revises the requirements for the qualification of welding and brazing procedures, welding and brazing personnel, and production test plates and welds, specified in AS 1210, *Pressure vessels*, AS 1228, *Pressure equipment—Boilers*, and AS 4041, *Pressure piping*.

This Standard is a major revision of AS/NZS 3992:2015, with due allowance for latest practices or requirements of AS 1210, AS 1228 and AS 4041.

Requirements have been formulated with a view to maximize compatibility with recognized leading International Standards including ISO 9606 (all parts) and ISO 15614 (all parts).

The main changes in this revision are as follows:

(a) The roles and responsibilities in this revision have been changed (reduced); however some level of roles and responsibilities have been retained. The inclusion of roles and responsibilities in this Standard was approved by the Standards Development and Accreditation Committee (SDAC).

(b) Revision and addition of new requirements to Sections 1, 5, 6, 7, 8 and 9 including revision of figures and tables within.

(c) Clarification of testing requirements particularly those requiring impact testing.

(d) Revision of Appendices B and D, and new Appendix G.

(e) Addition of a new Appendix I to provide guidance on oxidation colours for stainless steels and titanium.

(f) Correction of identified errors and ambiguities throughout the Standard.

(g) Revision of procedure qualification requirements for special welds and welding of service exposed materials (Section 8).

(h) Updating of referenced documents and alignment.

It is not intended that the publication of this edition will invalidate welding tests that were accepted in respect of other Standards referenced in AS/NZS 1200, *Pressure equipment*.

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

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