AS ISO/ASTM 52935:2025
ISO/ASTM 52935:2023

Australian STANDARD®

STANDARDS Australia

Additive manufacturing of metals — Qualification principles — Qualification of coordination personnel



AS ISO/ASTM 52935:2025

This Australian Standard® was prepared by MB-028, Additive Manufacturing. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 07 February 2025.

This Standard was published on 28 March 2025.

The following are represented on Committee MB-028:

Australian Automotive Aftermarket Association
Australian Ceramic Society
Australian Manufacturing Technology Institute
Austroads
Charles Darwin University
Engineers Australia
Materials Australia
Metro North Health, Queensland Government
NSW Government
RMIT University
University of Technology Sydney
University of Wollongong
Weld Australia

This Standard was issued in draft form for comment as DR AS ISO/ASTM 52935:2024.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:
www.standards.org.au

ISBN 978 1 76175 057 1

Additive manufacturing of metals — Qualification principles — Qualification of coordination personnel

First published as AS ISO/ASTM 52935:2025.

COPYRIGHT

© ISO 2025 — All rights reserved
© Standards Australia Limited 2025

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

Preface

This Standard was prepared by the Standards Australia Committee MB-028, Additive Manufacturing.

The objective of this document is to specify qualification requirements for coordination personnel in industrial manufacturing sites responsible for additive manufacturing of metal parts.

This document is applicable to all metallic processes that are described by ISO 17296-2. In this context, the skills, tasks and responsibilities for different levels of AM coordination personnel are typically adapted according to the applicable regulations, depending on the process.

This document is intended to provide guidance and requirements for the qualification of coordination personnel in general-industrial applications.

This document is identical with, and has been reproduced from ISO/ASTM 52935:2023, *Additive manufacturing of metals — Qualification principles — Qualification of coordination personnel*.

As this document has been reproduced from an international document, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

© Standards Australia Limited 2025

Contents

Preface ii
Foreword iv
Introduction v
Section 1 Scope 1
Section 2 Normative references 1
Section 3 Terms and definitions 1
Section 4 Tasks and responsibilities 2
4.1 General 2
4.2 Specification of tasks and responsibilities 2
4.3 Tasks and responsibilities 2
4.4 Responsibilities and extent of authorization 2
Section 5 Technical knowledge and competence 3
5.1 General 3
5.2 Competence levels for AM coordination personnel 3
5.2.1 Level 1 - Basic 3
5.2.2 Level 2 - Standard 3
5.2.3 Level 3 – Advanced 3
Section 6 Qualification 3
6.1 Assessment of AM coordination personnel 3
6.2 Validity of qualification 4
6.3 Re-qualification 4
Section 7 Qualification test certificate 4
Annex A (informative) **Qualification test certificate of AM coordination personnel** 6
Annex B (normative) **AM coordination personnel tasks/responsibilities and levels** 8
Bibliography 21

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 261, *Additive manufacturing*, in cooperation with ASTM Committee F42, *Additive manufacturing technologies*, on the basis of a partnership agreement between ISO and ASTM International with the aim to create a common set of ISO/ASTM standards on additive manufacturing, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 438, *Additive manufacturing,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

© Standards Australia Limited 2025

Introduction

For many companies, additive manufacturing (AM) represents an interesting alternative to established manufacturing processes. The trend towards complex, customised or consolidated components, in addition to opportunities for reduced lead times and decentralised production allows an economically feasible use for a growing number of areas. This increasingly applies to many series applications, which add further demands on the efficiency and consistency of the processes. In particular, components used in regulated industries (e.g. automotive, rail, aerospace, process and industrial plants, medical) are subject to high demands in terms of quality and safety.

Where industrial components are produced using additive manufacturing processes, these shall satisfy the equivalent quality and safety requirements demanded of conventional processes. To this end, the production chain and environment are designed such that the process quality and resulting product quality are always consistent and reproducible. To achieve consistency and reproducibility, it is of utmost importance to ensure that the involved workforce is adequately qualified for all stages of production.

This document describes the activities and responsibilities of the personnel with coordination roles in the field of additive manufacturing for metallic parts.

© Standards Australia Limited 2025

NOTES

Australian Standard®

Additive manufacturing of metals — Qualification principles — Qualification of coordination personnel

Section 1 Scope

This document specifies qualification requirements for coordination personnel in industrial manufacturing sites responsible for additive manufacturing of metal parts.

This document is applicable to all metallic processes that are described by ISO 17296-2. In this context, the skills, tasks and responsibilities for different levels of AM coordination personnel are typically adapted according to the applicable regulations, depending on the process.

This document is intended to provide guidance and requirements for the qualification of coordination personnel in general-industrial applications. Additional requirements are typically needed for specific industries or applications (e.g. aerospace, medical) or to meet regulatory requirements.

Section 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/ASTM 52900, *Additive manufacturing — General principles — Fundamentals and vocabulary*

ISO/ASTM 52920, *Additive manufacturing — Qualification principles — Quality requirements for industrial additive manufacturing sites*

ISO/ASTM/TS 52930, *Additive manufacturing — Qualification principles — Installation, operation and performance (IQ/OQ/PQ) of PBF-LB equipment*

Section 3 Terms and definitions

For the purposes of this document, the terms and definitions given in in ISO/ASTM 52900 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
AM coordination personnel
AM coordinator

person or group of people performing defined AM coordination tasks, designated by the company to be responsible for a specific process

Note 1 to entry: The designation can be valid for one specific AM process or covering several process categories as specified in ISO/ASTM 52900 and illustrated in ISO 17296-2.

Note 2 to entry: Different personnel may be appointed by the manufacturer for different AM related tasks.

© Standards Australia Limited 2025