



**Non-destructive testing—Qualification
and certification of NDT personnel**

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- Australian Aerospace Non-Destructive Testing Committee
 - Australian Industry Group
 - Australian Institute for Non-Destructive Testing
 - Australian Nuclear Science and Technology Organisation
 - Australian Pipeline Industry Association
 - Austroads
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 - Department of Defence (Australia)
 - Engineers Australia
 - National Association of Testing Authorities Australia
 - New Zealand Non-Destructive Testing Association
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-

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Australian Standard[®]

**Non-destructive testing — Qualification
and certification of NDT personnel**

A1 | Original as AS 3998—1992.
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PREFACE

A1 This Standard was prepared by the Standards Australia Committee MT-007, Non-Destructive Testing of Metals and Materials, to supersede AS 3998—2006, *Non-destructive testing—Qualification and certification of personnel*.

This Standard incorporates Amendment No. 1 (January 2015). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to specify requirements for principles for the qualification and certification of personnel who perform industrial non-destructive testing (NDT).

This Standard is identical with, and has been reproduced from ISO 9712:2012, *Non-destructive testing—Qualification and certification of NDT personnel*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) In the source text ‘this International Standard’ should read ‘this Australian Standard’.
- (b) A full point substitutes for a comma when referring to a decimal mark.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

| <i>Reference to International Standard</i> | <i>Australian/New Zealand Standard</i> |
|--|--|
| ISO/IEC | AS/NZS ISO/IEC |
| 17024 Conformity assessment—General requirements for bodies operating certification of persons | 17024 Conformity assessment—General requirements for bodies operating certification of persons |

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

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INTRODUCTION

Since the effectiveness of any application of non-destructive testing (NDT) depends upon the capabilities of the persons who perform or are responsible for the test, a procedure has been developed to provide a means of evaluating and documenting the competence of personnel whose duties require the appropriate theoretical and practical knowledge of the non-destructive tests they perform, specify, supervise, monitor or evaluate. An added incentive stems from the worldwide comparability of a wide range of industrial applications requiring common non-destructive testing approaches.

When certification of NDT personnel is required in product standards, regulations, codes or specifications, it is important to certify the personnel in accordance with this International Standard. When latitude is provided in the criteria within this International Standard, the certification body has the final decision in determining specific requirements.

When there is no requirement in legislation, in standard or in the order for certification of NDT personnel, it is for employers of such personnel to decide how to assure themselves that they are competent to do the work assignments. Thus, they may employ people who are already certified or they may apply their own expertise so as to assure themselves that their employee has the necessary competence. In this last case, prudent employers would no doubt use this International Standard as a reference document.

AUSTRALIAN STANDARD

Non-destructive testing—Qualification and certification of NDT personnel**1 Scope**

This International Standard specifies requirements for principles for the qualification and certification of personnel who perform industrial non-destructive testing (NDT).

NOTE 1 The term “industrial” implies the exclusion of applications in the field of medicine.

The system specified in this International Standard can also apply to other NDT methods or to new techniques within an established NDT method, provided a comprehensive scheme of certification exists and the method or technique is covered by International, regional or national standards or the new NDT method or technique has been demonstrated to be effective to the satisfaction of the certification body.

NOTE 2 CEN/TR 14748^[5] can be used as guidance.

The certification covers proficiency in one or more of the following methods:

- a) acoustic emission testing;
- b) eddy current testing;
- c) infrared thermographic testing;
- d) leak testing (hydraulic pressure tests excluded);
- e) magnetic testing;
- f) penetrant testing;
- g) radiographic testing;
- h) strain gauge testing;
- i) ultrasonic testing;
- j) visual testing (direct unaided visual tests and visual tests carried out during the application of another NDT method are excluded).

NOTE 3 This International Standard specifies requirements for what are, in effect, third party conformity assessment schemes. These requirements do not directly apply to conformity assessment by second or first parties, but relevant parts of this International Standard can be referred to in such arrangements.

NOTE 4 Wherever gender specific words such as “his”, “her”, “he” or “she” appear in this International Standard, the other gender is also applicable.

2 Normative references

The following referenced documents are indispensable for the application 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/IEC 17024, *Conformity assessment — General requirements for bodies operating certification of persons*