

Australian Standard™

**Non-destructive testing— Qualification
of personnel for limited applications of
non-destructive testing**

This Australian Standard was prepared by Committee MT-007, Non-destructive Testing of Metal and Materials. It was approved on behalf of the Council of Standards Australia on 19 October 2004.

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The following are represented on Committee MT-007:

Australian Railway Association
Australian Aerospace Non-Destructive Testing Committee
Australian Industry Group
Australian Institute for Non-Destructive Testing
Australian Nuclear Science & Technology Organisation
Australian Pipeline Industry Association
Bureau of Steel Manufacturers of Australia
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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee MT-007, Non-Destructive Testing of Metals and Materials. 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 is identical with and has been reproduced from ISO 20807:2004, *Non-destructive testing—Qualification of personnel for limited applications of non-destructive testing*.

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

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this International Standard’ should read ‘this Australian Standard.’
- (c) A full point should be substituted for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian as follows:

<i>References to International Standard</i>	<i>Australian Standard</i>
ISO	AS
9712 Non-destructive testing—Qualification and certification of personnel	3998 Non-destructive testing—Qualification and certification of personnel
ISO/IEC	
17024 Conformity assessment—General requirements for bodies operating certification of persons	

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

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INTRODUCTION

Since the effectiveness of any application of non-destructive testing depends upon the capabilities of the persons who perform or who are responsible for the test, a procedure has been developed to provide a means for evaluating and documenting the competence of personnel whose duties require the appropriate theoretical knowledge and practical competence of the non-destructive tests that they perform.

For this reason, ISO/TC 135 developed an International Standard, ISO 9712, to ensure that the certification of competence of NDT personnel could be performed to a consistent and high standard worldwide.

Recognizing, however, that the provisions of ISO 9712 were not necessarily appropriate in some instances, e.g., in limited applications of non-destructive testing, ISO TC135 SC 7 authorized a Working Group (WG 5) to draft proposals which would facilitate the standardization of the qualification of personnel carrying out such limited NDT applications. This document represents the result of the deliberations of ISO/TC 135/SC 7/WG 5.

As a provision outside the scope of ISO 9712 requirements, limited NDT is the practice of a test method for a particular application requiring specific training and experience, i.e., an application which is limited, repetitive or automated. It should be noted that, within ISO 9712, there is provision for a reduction in the duration of training and experience required for eligibility. Annex A serves to provide examples of syllabi for the training and examination of personnel seeking qualification to this International Standard.

The methodology set out in this International Standard may be applied to the qualification of personnel for any limited application of NDT. However, it is not intended that qualification for limited applications be substituted for qualification and certification under ISO 9712.

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

AUSTRALIAN STANDARD

Non-destructive testing — Qualification of personnel for limited applications of non-destructive testing

1 Scope

1.1 This International Standard establishes a system for the qualification of personnel who perform NDT applications of a limited, repetitive or automated nature, such as:

- a) eddy current and electromagnetic sorting of materials;
- b) eddy current and electromagnetic testing of tubular products during manufacture;
- c) normal beam ultrasonic testing of plate materials during manufacture;
- d) ultrasonic thickness testing.

These examples are not intended to restrict the range of qualifications which could be covered by this International Standard.

1.2 This standard therefore does not provide for magnetic particle testing (MT) or liquid penetrant testing (PT).

NOTE The arrangements described in ISO 9712 provide sufficient flexibility to allow limited applications of these methods.

1.3 When the need for qualified non-destructive testing (NDT) personnel is defined in product standards, regulations, codes or specifications, and the nature of the testing to be carried out is limited in scope or automated such that the qualification requirements specified in ISO 9712 are considered inappropriate or excessive, it may be satisfied by qualification in accordance with this International Standard.

1.4 This International Standard is not intended to supplant the qualification and certification requirements detailed in sector-specific standards, such as ISO 11484:1994 *Steel tubes for pressure purposes — Qualification and certification of non-destructive testing (NDT) personnel*.

1.5 The requirements detailed herein apply only to NDT personnel qualified for specific applications, and no direct attempt should be made to equate this to the NDT levels defined in ISO 9712. However, it is recommended that qualified personnel defined in this International Standard be supervised by an appropriately certified NDT level 2 or 3 person as defined in ISO 9712:1999.

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 9712:1999, *Non-destructive testing — Qualification and certification of personnel*

ISO/IEC 17024, *Conformity assessment — General requirements for bodies operating certification of persons*