

Australian Standard™

**Guidelines for the selection of statistical
methods in standardization and
specification**

This Australian Standard was prepared by Committee QR-008, Quality Systems. It was approved on behalf of the Council of Standards Australia on 17 May 2004. This Standard was published on 5 July 2004.

The following are represented on Committee QR-008:

Airways New Zealand
Australian Institute of Petroleum
Australian Organisation for Quality
Bureau of Steel Manufacturers of Australia
Commonwealth Department of Transport and Regional Services
Department of Agriculture, Fisheries and Forestry (Commonwealth)
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**Guidelines for the selection of statistical
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First published as AS ISO 13425—2004.

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Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 6109 7

PREFACE

This Standard was prepared by the Australia members of Joint Standards Australia/New Zealand Committee QR-008, Quality Systems. 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 Australia/New Zealand Standard.

This Standard is identical with, and has been reproduced from ISO/TR 13425:2003, *Guidelines for the selection of statistical methods in standardization and specification*.

The objective of this Standard is to provide analysts and other readers and users with guidance on the selection and an overview of all the reference standards, guides, technical reports and DIS developed by ISO/TC 69 from a user perspective.

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

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this Technical Report’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

Some of the documents listed in Annex A have been or will be adopted as Australian Standards. The ISO 2859 series has been adopted as the AS 1199 series. It is the intention of the Committee to adopt the following documents:

ISO/TR 13425
ISO/TR 10017
ISO 16269-7
ISO 11843-1
ISO 11843-2
ISO 11843-3
ISO 11843-4
ISO 16269-7

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INTRODUCTION

Statistical methods have numerous practical applications in the manufacturing and service industries, marketing, research, laboratories and other spheres. Their effectiveness depends firstly on the suitability of the chosen method for the intended purpose and secondly on the application for which it is used. Incorrect choice or poor application can lead to improper deductions and therefore to crucial errors and inappropriate decisions.

This is one of the reasons why ISO has produced a range of Standards for the application of statistical methods.

This Technical Report should be seen as a descriptive catalogue of the available TC 69 International Standards and Guides, published or in course of preparation, to assist the reader in selecting those most suitable for his purpose, according to his needs, whether these be in decision making, problem solving or in achieving a given purpose.

AUSTRALIAN STANDARD

Guidelines for the selection of statistical methods in standardization and specification

1 Scope

This Technical Report gives guidance on the selection and an overview of all the referenced standards, guides, technical reports and DIS developed by ISO/TC 69 from a user prospective. DIS are drafts which can be amended. Both categories are documents, which are available to the public. This Technical Report also gives two descriptions of the content of the standards by two sets of abstracts: non-technical abstracts and technical abstracts of all these documents. Each abstract presents a brief survey of the content of the actual standard or DIS. It also gives some indications of the use of the document in different areas.

Annex A gives the non technical and technical abstracts. The non-technical abstracts are usually brief. In these abstracts, the number of technical terms are kept to a minimum. They give brief outlines of the actual documents. The technical abstracts are somewhat longer. More technical terms are used. The technical abstracts also go more into depth with regard to the content and the use of the actual document than the non-technical abstracts. For many documents, the two abstracts supplement each other.

Annex B lists the committee drafts, working drafts and new work item proposals in the ISO/TC 69 work program.

The types of document are identified as follows:

Published International Standard:	ISO xxxxxxx
Final draft International Standard:	FDIS
Draft International Standard:	DIS
Committee draft:	CD
Working draft:	WD
New work item proposal:	NP
Draft Technical Specification:	DTS
Technical Specification:	TS
Draft Technical Report:	DTR
Published Technical Report:	TR