

AS ISO 11462.1—2004
ISO 11462-1:2001

AS ISO 11462.1—2004

Australian Standard™

**Guidelines for implementation of
statistical process control (SPC)**

Part 1: Elements of SPC

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)
- Federal Chamber of Automotive Industries
- Institute of Materials Engineering Australasia
- Institution of Engineers Australia
- International Accreditation Forum
- Joint Accreditation System of Australia and New Zealand
- Main Roads Department, Queensland
- QSA International
- Telarc New Zealand
- The Royal Australian Chemical Institute

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

AS ISO 11462.1—2004

Australian Standard™

Guidelines for implementation of statistical process control (SPC)

Part 1: Elements of SPC

First published as AS ISO 11462.1—2004.

COPYRIGHT

© Standards Australia International

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.

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

ISBN 0 7337 6108 9

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 11462-1:2001, *Guidelines for implementation of statistical process control (SPC)*, Part 1: *Elements of SPC*.

The objective of this Standard is to provide analysts with the elements for implementing an SPC system to increase knowledge about a process, steer a process to behave in a certain way, reduce variation of final-product parameters or in other ways improve performance of a process in order to guide an organization in planning, developing, executing or evaluating an SPC system.

The term ‘normative’ has been used in this Standard to define the application of the annex to which it applies. A ‘normative’ annex is an integral part of a Standard.

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 part of ISO 11462’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

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 Standard/New Zealand</i>	
ISO		AS/NZS ISO	
9000	Quality management systems— Fundamentals and vocabulary	9000	Quality management systems— Fundamentals and vocabulary

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

CONTENTS

Page

Introduction	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 SPC applications.....	2
4.1 Process characteristics	2
4.2 Production characteristics	2
4.3 Techniques for control and models of processes	3
5 SPC objectives and organization	3
5.1 SPC objectives	3
5.2 Financial motive for SPC	4
5.3 Relationships	4
5.4 SPC organization	5
6 Conditions for statistical process control	5
6.1 Management support	5
6.2 Understanding of SPC tools and methods	6
6.3 Quality management system	6
7 Elements of a statistical process control system	6
7.1 Process documentation and control plan	6
7.2 Definition of process targets and limits	7
7.3 Measurement system evaluation and control.....	7
7.4 Documented work instructions	8
7.5 Employee training and involvement in process data.....	8
7.6 Process data recording and collection	9
7.7 Traceability and production sequence identification	10
7.8 Subcontractor performance evaluation	10
7.9 Process input sequencing	10
7.10 Process logs.....	11
7.11 Process reliability	11
7.12 Process output monitoring system	12
7.13 Process control system	12
7.14 Short-term variability assessment	12
7.15 Long-term variability assessment.....	13
7.16 Communicating the results of process analyses.....	14
7.17 Customer information system.....	14
7.18 Internal SPC audits.....	14
7.19 SPC projects and teams.....	15
7.20 Process improvement, optimization and troubleshooting	15
Annex A (normative) Terms and definitions	16
Bibliography	23

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-