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Software engineering — Guidelines for the application of ISO 9001:2008 to computer software

*Ingénierie du logiciel — Lignes directrices pour l'application de l'ISO
9001:2008 aux logiciels informatiques*

Reference number
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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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 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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword — Supplementary information.

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and system engineering*.

This second edition of ISO/IEC 90003 cancels and replaces the first edition. It has been updated for conformity to ISO 9001:2008 and to reference recent editions of other relevant standards.

This is a preview of "ISO/IEC 90003:2014". [Click here to purchase the full version from the ANSI store.](#)

Introduction

This International Standard provides guidance for organizations in the application of ISO 9001:2008 to the acquisition, supply, development, operation, and maintenance of computer software.

It identifies the issues that should be addressed and is independent of the technology, life cycle models, development processes, sequence of activities, and organizational structure used by an organization. The guidance and identified issues are intended to be comprehensive but not exhaustive. Where the scope of an organization's activities includes areas other than computer software development, the relationship between the computer software elements of that organization's quality management system and the remaining aspects should be clearly documented within the quality management system as a whole.

[Clauses 4, 5, and 6](#) and parts of Clause 8 of ISO 9001:2008 are applied mainly at the "global" level in the organization, although they do have some effect at the "project/product level". Each project or product development may tailor the associated parts of the organization's quality management system to suit project/product-specific requirements.

Throughout ISO 9001:2008, "shall" is used to express a provision that is binding between two or more parties, "should" to express a recommendation among possibilities, and "may" to indicate a course of action permissible within the limits of ISO 9001:2008. This International Standard (ISO/IEC 90003) provides guidance to assist in understanding how the provisions of ISO 9001:2008 apply in the context of software.

Organizations with quality management systems for developing, operating, or maintaining software based on this International Standard may choose to use processes from ISO/IEC 12207 to support or complement the ISO 9001:2008 process model. The related paragraphs of ISO/IEC 12207:2008 are referenced in each clause of this International Standard; however, they are not intended to imply requirements additional to those in ISO 9001:2008. Further guidance to the use of ISO/IEC 12207 may be found in ISO/IEC 24748-3. For additional guidance, references are provided to the International Standards for software engineering defined by ISO/IEC JTC 1/SC 7. Where these references are specific to a clause or subclause of ISO 9001:2008, they appear after the guidance for that clause or subclause. Where they apply generally across the parts of a clause or subclause, the references are included at the end of the last part of the clause or subclause.

Where text has been quoted from ISO 9001:2008, that text is enclosed in a box, for ease of identification.