

Australian Standard[®]

Design review

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PREFACE

This Standard was prepared by the Standards Australia Committee QR-005, Dependability.

The objective of this Standard is to provide guidance on planning and conducting a design review during design and development, as a means of verifying that design input requirements are being met. Includes specific guidance on contributions by specialists in reliability, maintenance, maintenance support, availability and the life cycle of a product or system.

This Standard is identical with, and has been reproduced from IEC 61160, Ed.2 (2005), *Design review*.

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INTRODUCTION

The dependability of a product is enhanced through implementation of necessary disciplines during the design and development phases of a product's life cycle. Like other technical and engineering disciplines, a design review needs to be properly managed in order to achieve its objectives.

Properly implemented, design reviews enhance the potential for delivering a product of the required dependability, quality, performance, safety and potential for reduction in costs and delivery schedule. Both supplier and customer can utilize it.

A design review is an advisory activity. It is intended primarily to provide verification of the work of the design development team, and to provide recommendations, where possible, to improve the product or process and its realization. Thus design reviews should be considered as a confirmation and refining procedure and not a creative one.

Design reviews, regardless of frequency or depth cannot replace good product definitions, design specifications, and management of the design and development processes. Used as a control process, design reviews can provide the necessary verification of the successful outcome of the design effort at a given time.

Design reviews should not be confused with day-to-day management of a design project. The design manager carries the responsibility for the design and the final decisions for the response to a design review's actions and recommendations. Design reviews when properly conducted, increase confidence that design and development activities were carried out with due regard to all pertinent requirements for a product throughout its life cycle.

The application of this standard needs to be tailored to the needs of the design and development project or task in question and the organization preparing the design.

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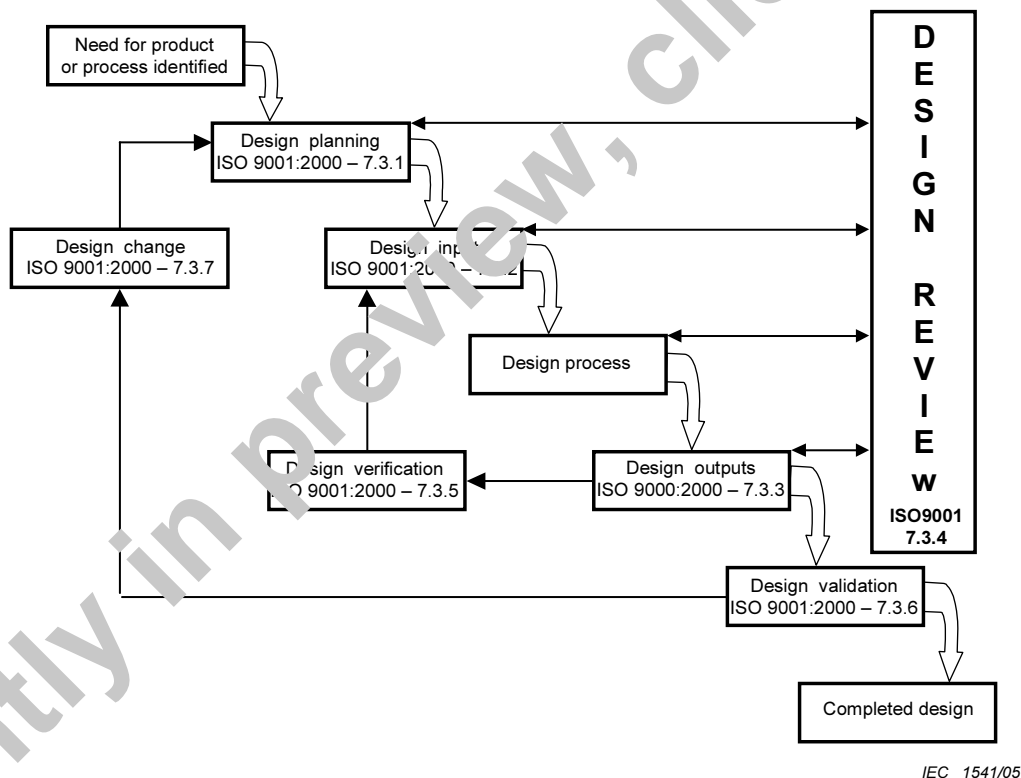
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1 Scope**1.1 General**

This International Standard makes recommendations for the implementation of design review as a means of verifying that the design input requirements have been met and stimulating the improvement of the product's design. The intention is for it to be applied during the design and development phase of a product's life cycle.

It provides guidelines for planning and conducting a design review and specific details concerning contributions by specialists in reliability, maintenance, maintenance support and availability.

The process for design and development is outlined in Figure 1 and requirements for management of the design and development process overall are given in ISO 9001:2000. The stages at which the design review or reviews are to be held should be determined during the development of the plan for the design.



NOTE Reference to the clauses of ISO 9001:2000 is for information only.

Figure 1 – Design and development process