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# Quality systems

Part 1. Specification for design,  
manufacture and installation

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Systèmes relatifs à la qualité

Partie 1. Spécification de la conception, de la fabrication et de l'installation

Qualitätssysteme

Teil 1. Spezifikation für Konstruktion, Herstellung und Einbau

British Standards Institution



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## Foreword

The foreword to BS 5179 records the early misgivings in many sectors of industry about the reissue of defence standards, covering quality management systems, as British Standards. These misgivings resulted in BS 5179 being published as a series of guides. Since then, the growing demand for the application of quality assurance principles to contracts and for the assessment of suppliers' quality management systems, has led to the publication of a number of quality assurance standards by various purchasing and third party organizations. This proliferation has highlighted the need for a British Standard that will encourage the rationalization envisaged in Sir Frederick Warner's report on 'Standards and specifications in the engineering industries', published by the National Economic Development Office (NEDO), February 1977. The principal differences between this standard and the

BS 5179 series are as follows:

- (a) Requirements have been specified instead of recommendations being made.
- (b) The numbering of the corresponding Parts has been altered so that Parts 1 and 3 of BS 5179 correspond to Parts 3 and 1, respectively, of this standard; Part 2 remains unchanged.
- (c) Where relevant, reference is made to BS 5781 'Specification for measurement and calibration systems'.
- (d) Clauses dealing with *review, evaluation guidance* and *significant questions* have not been included. Where necessary, the appropriate Part of BS 5179 can continue to be used for guidance purposes until such time as that standard is revised or replaced.

Further general guidance on quality assurance is provided in BS 4891.

British Standard

## Quality systems

## Part 1. Specification for design, manufacture and installation

## 0. Introduction

This British Standard specifies requirements for three basic levels of system for the assurance of quality of material and/or services. These are given in three Parts as follows.

*Part 1. Specification for design, manufacture and installation.* This specifies the quality system to be applied when the technical requirements of material and/or services are specified principally in terms of the performance required, or where design has not been established.

In these circumstances the supplier is frequently responsible for design, development, manufacture, installation work and field trials. Reliability and other characteristics can be ensured only by control of quality throughout all phases of this work. Comprehensive guidance on the reliability of systems, equipment and components is provided in BS 5760.

*Part 2. Specification for manufacture and installation.* This specifies the quality system to be applied when the technical requirements of material and/or services are specified in terms of established design and where conformance to specified requirements can be assured only by inspection and test during manufacture and, as appropriate, installation.

*Part 3. Specification for final inspection and test.* This specifies the quality system to be applied when conformance to specified requirements of material and/or services can be adequately established by inspection and tests conducted on the finished material or services.

NOTE. In the title and throughout this standard the term 'specified requirements' is used to embrace the following:

- requirements prescribed by the purchaser in a contract for material or services;
- requirements prescribed by the supplier that are not subject to direct specification by the purchaser.

The level of system necessary to assure quality in a rational and cost effective manner will depend on the nature of the material or service required.

This standard can be used for the following purposes.

- As a basis for evaluating the capability of a supplier's quality management system, either by a potential purchaser or by a third party, in order to provide assurance to interested parties. This may be prior to the establishment of a contract.
- Where invoked in a contract, to specify the quality assurance requirements appropriate to the particular material or service.

NOTE. It may be necessary for the contract to be supplemented by additional quality assurance documents that define how the requirements of this standard will be met.

(c) In other documents (e.g. product standards) where reference to a quality management system is appropriate.

A broad list of cross-references of the requirements contained in the three Parts of this standard is given below. The titles quoted are those applicable to Part 1, but, it should be noted that the requirements for each Part differ in detail.

Requirements	Part 1	Part 2	Part 3
Quality system	4.1	4.1	4.1
Organization	4.2	4.2	4.2
Review of the quality system	4.3	4.3	
Planning	4.4		
Work instructions	4.5	4.8	
Records	4.6	4.4	4.4
Corrective action	4.7	4.9	
Design control	4.8		
Documentation and change control	4.9	4.4	
Control of inspection, measuring and test equipment	4.10	4.5	4.3
Control of purchased material and services	4.11	4.6	4.8
Manufacturing control	4.12	4.7, 4.14	
Purchaser supplied material	4.13	4.10	
Completed item inspection and test	4.14	4.11	
Sampling procedures	4.15	4.12	4.5
Control of non-conforming material	4.16	4.13	4.6
Indication of inspection status	4.17	4.15	4.7
Protection and preservation of product quality	4.18	4.16	4.9
Training	4.19	4.17	4.10

## 1. Scope

This Part of this British Standard specifies minimum quality system requirements for application to material and/or services, the technical requirements of which are specified principally in terms of the performance required, or for which the design has not been established.

NOTE. In these circumstances the supplier is frequently responsible for design, development, manufacture, installation work and field trials, any of which activities may require the use of new techniques.