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Smernice za vodenje ekonomske kakovosti

Guidelines for managing the economics of quality

Lignes directrices pour le management des effets économiques de la qualité

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TECHNICAL REPORT

ISO/TR 10014

First edition
1998-08-01

Guidelines for managing the economics of quality

*Lignes directrices pour le management des effets économiques
de la qualité*

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International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard (“state of the art”, for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 10014, which is a Technical Report of type 2, was prepared by Technical Committee ISO/TC 176, *Quality management and quality assurance*, Subcommittee SC 3, *Supporting technologies*.

This document is being issued in the Technical Report (type 2) series of publications (according to subclause G.3.2.2 of part 1 of the ISO/IEC Directives, 1995) as a “prospective standard for provisional application” in the field of the economics of quality because there is an urgent need for guidance on how standards in this field should be used to meet an identified need.

This document is not to be regarded as an “International Standard”. It is proposed for provisional application so that information and experience of its use in practice may be gathered. Comments on the content of this document should be sent to the ISO Central Secretariat.

A review of this Technical Report (type 2) will be carried out not later than three years after its publication with the options of: extension for another three years; conversion into an International Standard; or withdrawal.

Annex A of this Technical Report is for information only.

Introduction

This Technical Report presents concepts and a methodology which give organizations the opportunity to increase customer satisfaction and, at the same time, reduce costs. It also assists the organization in determining which of the techniques for the classification of costs and monitoring of customer satisfaction best meet their needs.

Quality management influences the economic performance of an organization both in the short and long term. The organization should not view these effects only in the form of cost reductions in the short term. What appears to be an improvement in the short term may have negative long-term effects on customer loyalty, product reputation or user confidence.

The short- and long-term economic goals should be formulated and regularly reviewed in quality planning.

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Guidelines for managing the economics of quality

1 Scope

This Technical Report provides guidance on how to achieve economic benefits from the application of quality management.

It should be applied broadly to all organizations and at all levels within an organization. It is not intended to be used in contractual situations nor as a subject for third-party audits.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this Technical Report. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this Technical Report are encouraged to investigate the possibility of applying the most recent edition of the standard listed below. Members of IEC and ISO maintain registers of currently valid International Standards. <https://standards.iteh.ai/catalog/standards/sist/1a8a9e72-8b64-4d0f-9b9f-398207637979/sist-iso-tr-10014-1998>

ISO 8402:1994, *Quality management and quality assurance — Vocabulary*.

3 Definitions

For the purposes of this Technical Report, the definitions given in ISO 8402 and the following definitions apply.

3.1

cost of conformity

cost to fulfil all of the stated and implied needs of customers in the absence of failure of the existing process

3.2

cost of nonconformity

cost incurred due to failure of the existing process

4 Primary purpose of an organization

The organization's management should define and document its primary purpose, its quality policy and quality objectives. It is then possible to plan value-adding and cost-reducing activities to maximize the economic effect.

EXAMPLES

A fire department would have the protection of the public from loss due to fire as its primary purpose.

A retailer may have the generation of profits as its primary purpose.

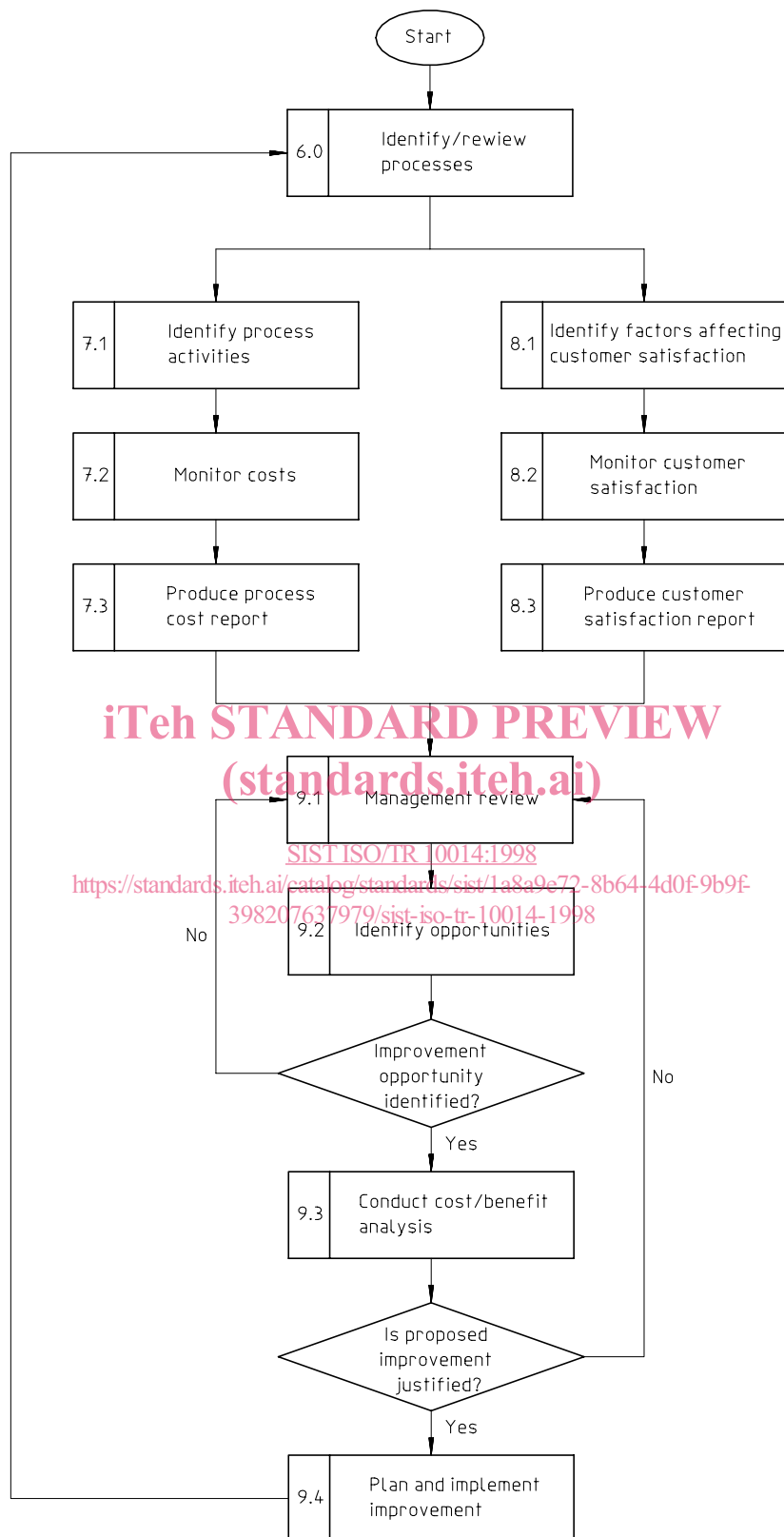


Figure 1 — Methodology for managing the economics of quality

5 Managing the economics of quality

The organization should achieve its primary purpose while continually improving its performance by using a methodology for managing the economics of quality as shown in figure 1.

NOTE The numbers in figure 1 correlate to the clause numbers of this Technical Report.

The methodology starts with the identification or the review of the organization's processes. This enables the activities and associated costs to be identified, monitored and reported. It also enables the organization to identify, monitor and report the level of customer satisfaction. These two reports can then be used in the management review to identify opportunities to improve processes and customer satisfaction.

Management should perform cost benefit analysis to determine if action is required and if the proposed improvement action is justified, taking into account the short- and long-term benefits.

If the action is approved, the organization should plan and implement the improvement and monitor the results to give feedback to the process.

The organization should repeat this methodology for continuous improvement.

6 Identify/review processes

Management should apply the concepts in this Technical Report to the organization as a whole. In this case the customers will be external to the organization. Management should also apply the concepts to selected processes within the organization. In these cases the customers may be both internal and external to the organization.

The organization should ensure that processes are directed towards the fulfilment of customer needs. Processes comprise a set of interrelated resources and activities which transform inputs into outputs. The economic performance of a process should be measured using indicators of costs and customer satisfaction.

The organization should identify the key processes in terms of their impact on cost and customer satisfaction. An organization should specify the roles and responsibilities of those who manage these processes.

7 Organization's view

7.1 Identify process activities

The organization should identify the activities within a process to enable costs to be allocated. This can be accomplished by developing a flowchart that shows all the process activities in their logical order. The inputs to process activities (such as materials, equipment and data) should be identified. The outputs from process activities should be identified and each output should be recognized as going to one or more customer.

The controls and resources of all processes should also be identified.

7.2 Monitor costs

The organization should identify and monitor the costs associated with each activity of the selected processes. Costs could include direct and indirect labour, materials, equipment, overheads, etc. Cost data can be actual, allocated or estimated.

Cost data can be extracted from the existing financial control system, complemented by operational data collection. Data extracted from other sources can be quantified and maintained by the organization. Costs that cannot be readily associated with specific cost elements should be estimated. If such costs are significant, appropriate records should be established. The objective is to allocate costs and not to absorb such costs into overheads. Costs should not be restricted to operational activities only but should encompass all activities of the organization.

There are currently in use several approaches to the classification of costs which include: