

Using of standardization and certification in industry

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Анотація

В даній роботі розповідається про взаємозалежність таких сфер як сертифікація та стандартизація і їх використання в промисловості.

Ключові слова: стандартизація, сертифікація, ISO, CASCO, міжнародні стандарти.

Abstract

This paper represents the interdependence of standardization and certification and using of them in industry.

Keywords: standardization, certification, ISO, CASCO, International standards.

In this work using of standardization and certification in industry will be presented and also it will show dependences and differences of that two terms.

Firstly let's consider determination of standardization.

Standardization is the process of implementing and developing technical standards. Standardization can help to maximize compatibility, interoperability, safety, repeatability, or quality. It can also facilitate commoditization of formerly custom processes. In social sciences, including economics, the idea of standardization is close to the solution for a coordination problem, a situation in which all parties can realize mutual gains, but only by making mutually consistent decisions. This view includes the case of "spontaneous standardization processes", to produce de facto standards [1].

Standardization is a consensual process. Authorities, standards officials, customers and manufacturers meet to consider mature and emerging technologies. They should operate to a frame of reference specifications [2].

Take mobile phones. They're governed by standards so work wherever you are. But not plugs and inlets. Why? Because when they were first manufactured, there was no regional or international standards. Only national ones, which explains the situation today.

Standardization professionals work ahead of the market, imagining new trends and requirements and taking into account the existing ones. I would say a standard is the touchstone of technology. International standards bodies like ISO and IEC establish the consensual state of the art for mature technologies. Standards also make marketing sense. They improve your products and open up markets. But you need to supply proof. That means having them assessed and certified to standard [2].

Imagine you make low-voltage switchgear that complies with IEC 60947-2. You need to demonstrate its conformity. That involves submitting to certification by a third-party organization that issues a certificate.

Certification – the provision by an independent body of written assurance (a certificate) that the product, service or system in question meets specific requirements.

Certification can be a useful tool to add credibility, by demonstrating that your product or service meets the expectations of your customers. For some industries, certification is a legal or contractual requirement.

ISO (International Organization of Standardization) develops International Standards, such as ISO 9001 and ISO 14001, but they are not involved in certification, and do not issue certificates. This is performed by external certification bodies, thus a company or organization cannot be certified by ISO. However ISO's Committee on Conformity Assessment (CASCO) has produced a number of standards related to the certification process, which are used by certification bodies.

In conclusion we can say that the difference between standardization and certification is that certification approve quality and conformity of some product or service to relevant standard.

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