

Conformity assessment

Tools enhancing *trust*

Sean MacCurtain

ISO/CASCO Secretary



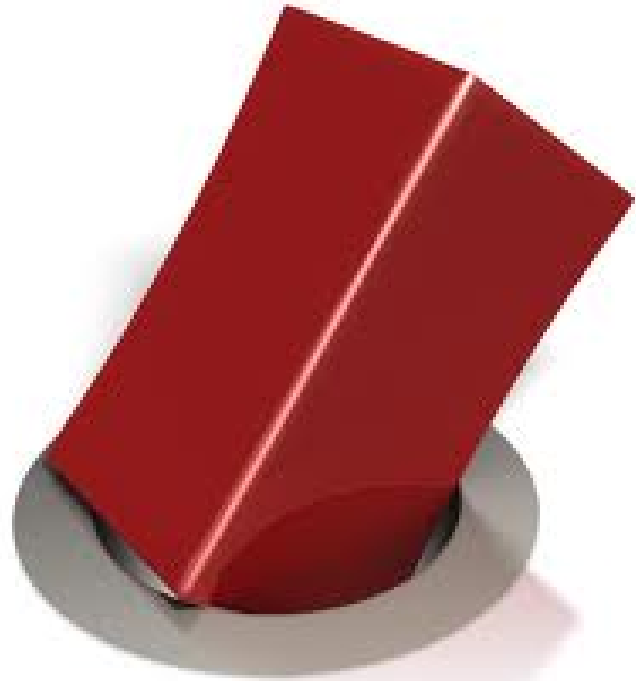
What is conformity assessment?

Standards



- Standards provide requirements, specifications, guidelines or characteristics to ensure that materials, products, processes and services are fit for their purpose.
- **How do you know how well standards are implemented and that requirements are met?**

Conformity Assessment



The process of conformity assessment demonstrates whether a product/service/system meets the relevant requirements

Conformity assessment bodies (CABs):

- testing, calibration laboratories
- inspection bodies
- certification bodies

Accreditation adds another
level of confidence

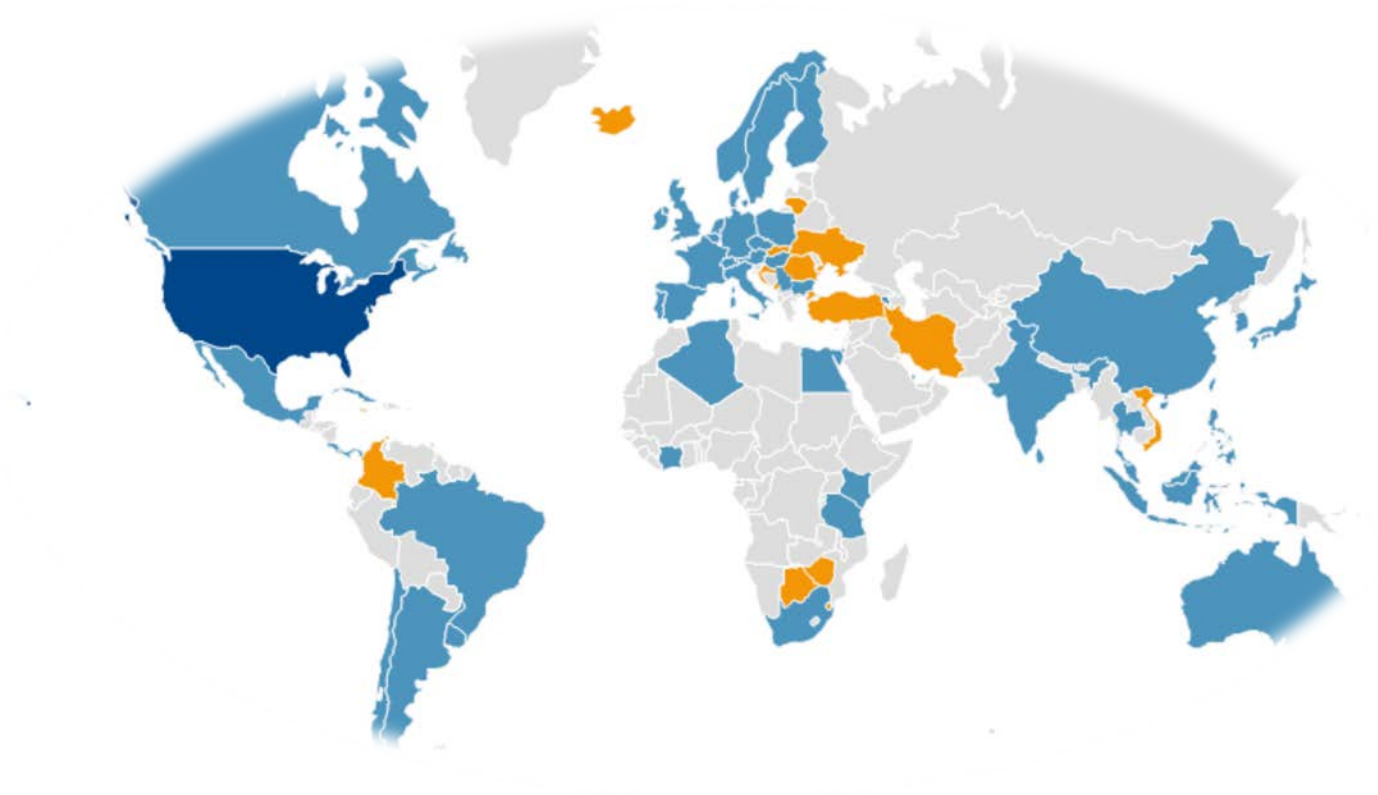
What is ISO/CASCO?

ISO/CASCO

ISO committee for conformity assessment:

- develops **policy** and ensures a consistent approach to conformity assessment
- develops **standards** related to conformity assessment practices

ISO/CASCO in figures



138 Members

22 Organizations in liaison

4 Standing policy groups

10 Active working groups

31 International Standards and Guides

TOOLBOX

Terms and definitions ISO/IEC 17000

Requirements for accreditation bodies – ISO/IEC 17011

Requirements for Testing/ calibration Testing and calibration laboratories ISO/IEC 17025 Proficiency testing ISO/IEC 17043	Requirements for inspection bodies ISO/IEC 17020	Requirements for certification bodies <table border="1"><tr><td>Management systems ISO/IEC 17021 and related parts ISO/IEC 17023</td><td>Persons ISO/IEC 17024 ISO/IEC TS 17027</td><td>Products ISO/IEC 17065 ISO/IEC 17067 ISO/IEC TR 17026</td></tr></table>	Management systems ISO/IEC 17021 and related parts ISO/IEC 17023	Persons ISO/IEC 17024 ISO/IEC TS 17027	Products ISO/IEC 17065 ISO/IEC 17067 ISO/IEC TR 17026	Conformity assessments of suppliers ISO/IEC 17050-1 ISO/IEC 17050-2	Peer assessment ISO/IEC 17040	Mutual recognition ISO/IEC Guide 68
Management systems ISO/IEC 17021 and related parts ISO/IEC 17023	Persons ISO/IEC 17024 ISO/IEC TS 17027	Products ISO/IEC 17065 ISO/IEC 17067 ISO/IEC TR 17026						

Conformity assessment & risk

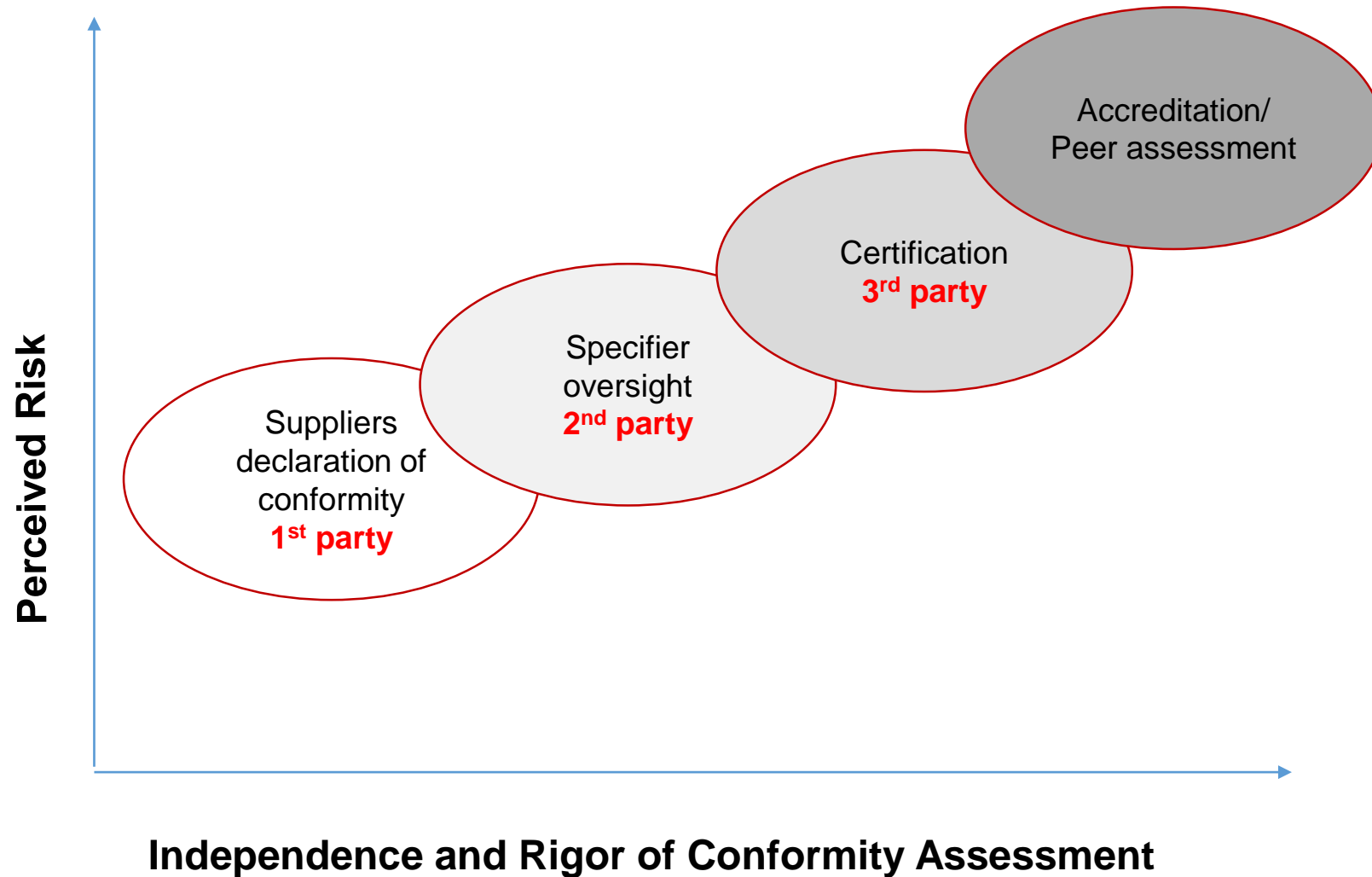
Risk Management

Risk assessment is a **key component of conformity assessment**

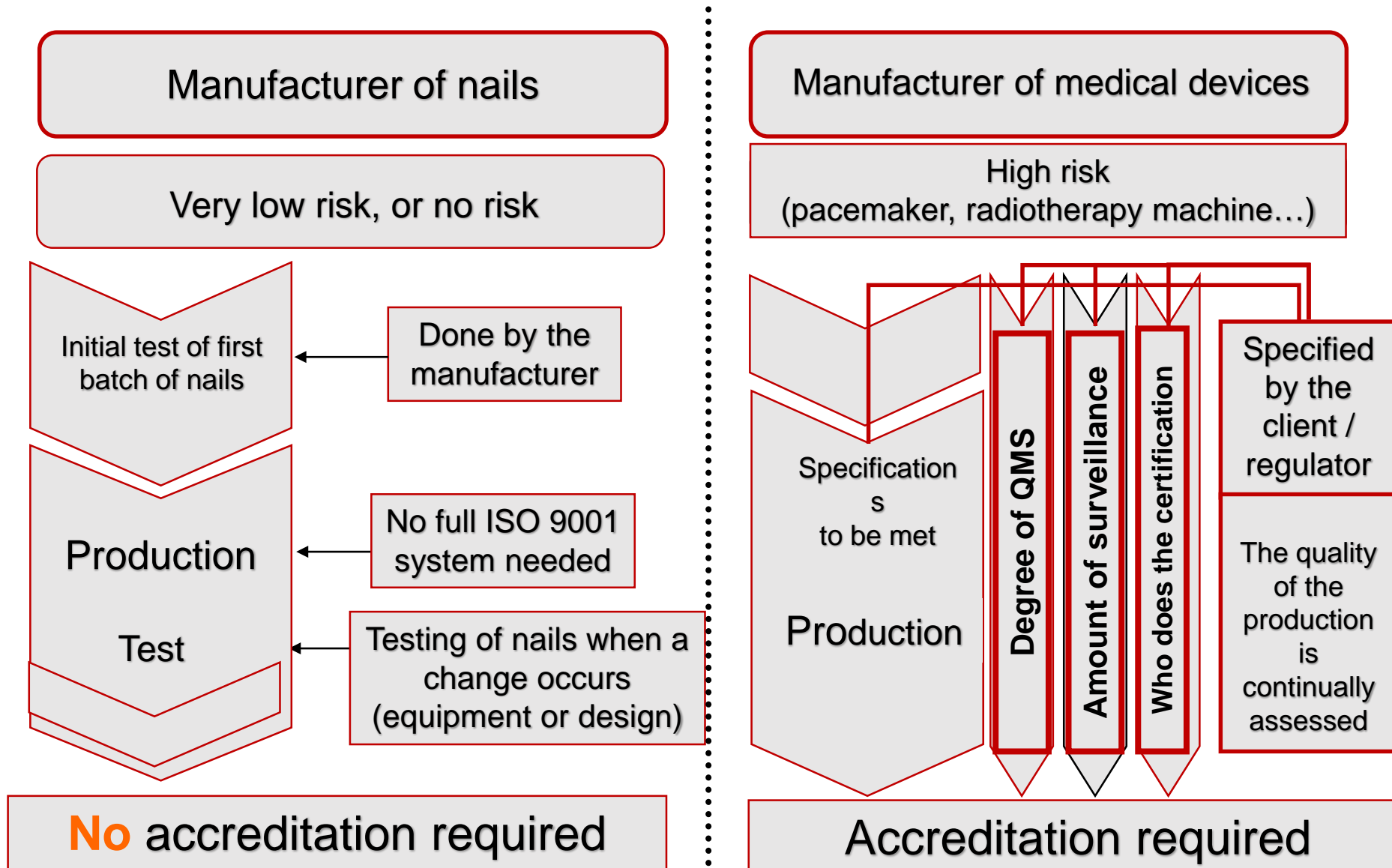
Different **conformity assessment options** used to manage the risks depending on:

- Product's complexity,
- Degree of potential hazard,
- Riskiness

Conformity assessment vs *risk*



Risk-based conformity assessment



Conformity assessment in disaster risk management

Standards & Risk Management

There are a variety of tools/standards to help prevent and manage disaster risks:

- Construction standards, including structures and products (buildings, bridges, towers and masts, silos, etc.).
- Management system standards and standards on risk management, business continuity, emergency management
- Sustainability, environment and social responsibility standards

Role of Conformity Assessment

- Standards bring real value in terms of **reducing casualties** and the **economic impact** of disasters only to the extent that they are **actually implemented**.
- Conformity Assessment (including inspection, testing, accreditation, certification etc.) based on international standards:
 - **gives confidence** that the product or service delivered meets a certain level of quality;
 - provides with **reliable evidence that standards** (statutory, regulatory or voluntary) are met;
 - thereby **supports the parties involved in disaster risk management**.

Examples

Examples

- **housing and building industry:** accreditation organizations and certification schemes may bring needed confidence in testing and certification carried out at the national level
- **nuclear plants, and rescue equipment:** can be certified so as to guarantee the safety of personnel and of communities living alongside the plants
- **management systems:** a Japanese bank provides more attractive loan rates to businesses with accredited certification as it encouraged firms to build resilience and be more in control of their risks
- **continuity management** and insurance premiums

Thank you!

Contact CASCO Secretariat
casco@iso.org

Resources: CASCO page on [ISO.org](https://www.iso.org)