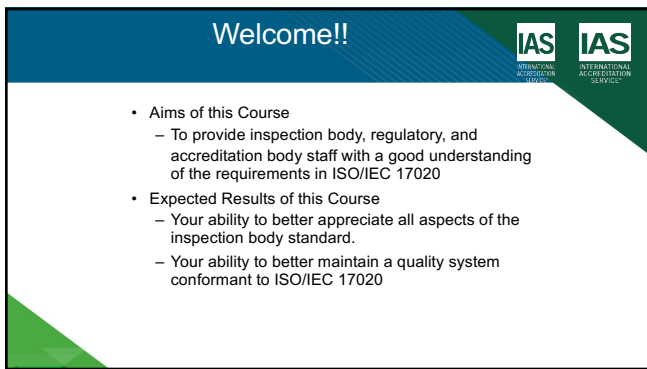
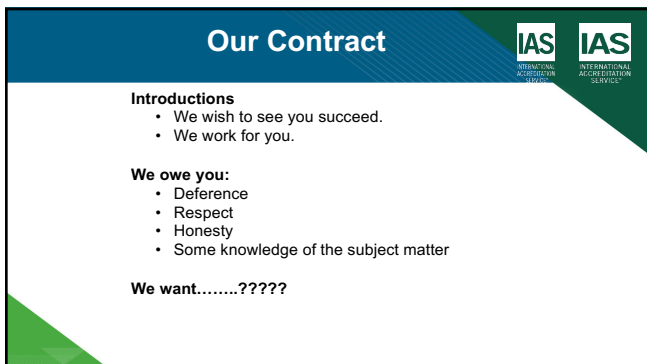




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3

Your Objectives

• ✓

ngravel@iasonline.org

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Timings for this course

- 09:00 – 10:30 Training
- 10:30 – 10:45 Break
- 10:45 – 12:00 Training
- 12:00 – 13:00 Lunch
- 13:00 – 14:30 Training
- 14:30 – 14:45 Break
- 14:45 – 16:30 Training
- 16:30 – End of Day

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Course Grading

- Based on the results of the End-of-Course Quiz
- Evaluating your facilitator.

E-mail both to me.

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Outline

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- Introduction
- Chapter 1 – Background
- Chapter 2 – Program Integrity Requirements
- Chapter 3 – Organizational Requirements
- Chapter 4 – Infrastructure Requirements
- -----
- Chapter 5 – Inspection Process Requirements
- Chapter 6 – Management System Requirements
- Chapter 7 – Continual Improvement Requirements
- Quiz

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Outline

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- Introduction
- Chapter 1 – Background
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- Chapter 3 – Organizational Requirements
- Chapter 4 – Infrastructure Requirements
- -----
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- Chapter 7 – Continual Improvement Requirements
- Quiz

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Background Outline

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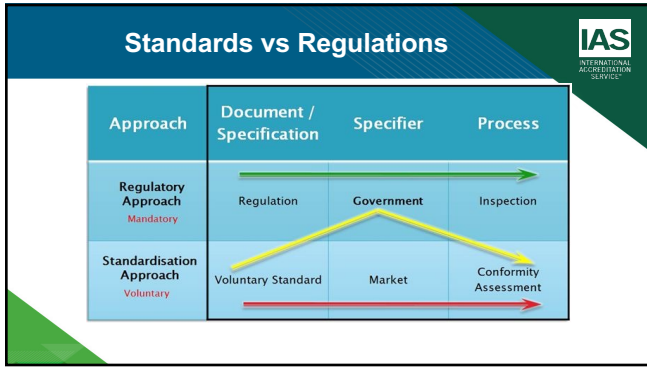
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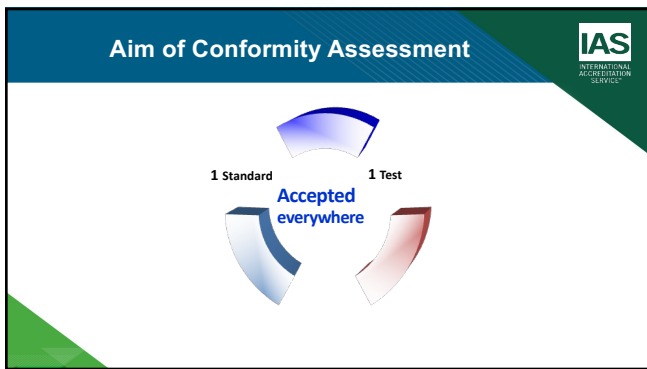
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- Standards vs Regulations
- Hierarchy of Technical Standards
- From Products to International Trade
- Conformity Assessment Principles
- Rationale for ISO/IEC 17020
- IB Operations
- Samples of types of inspections
- Overview of Inspection processes

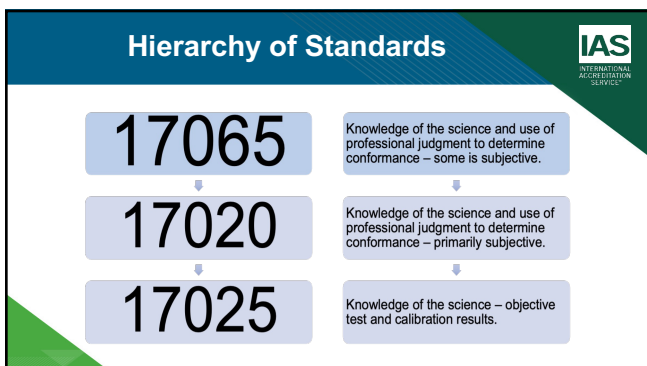
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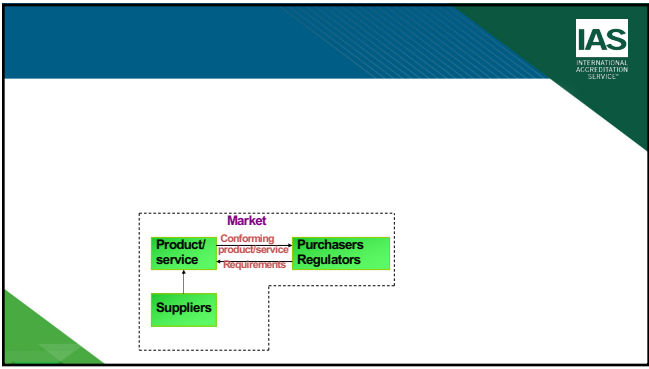
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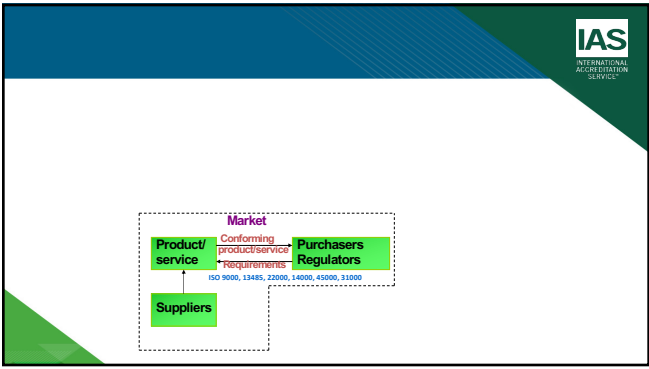
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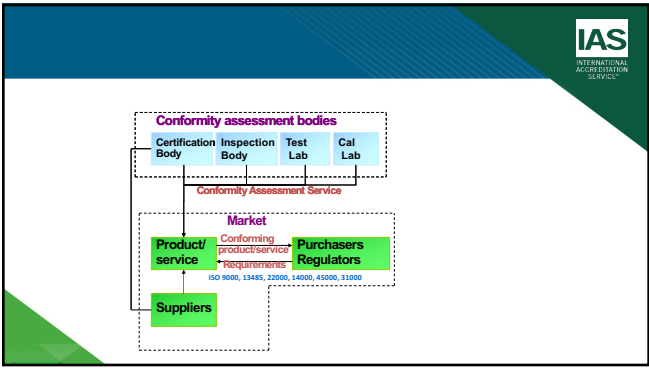
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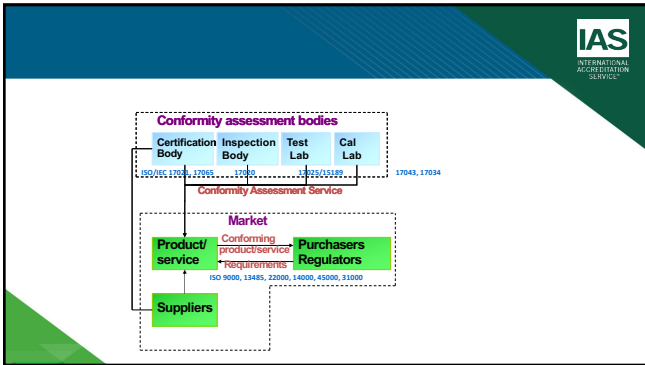
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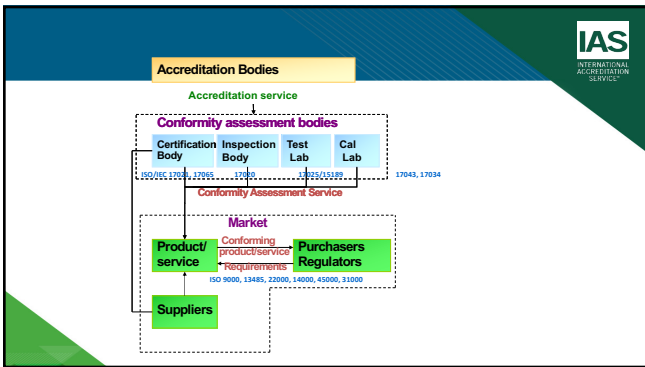
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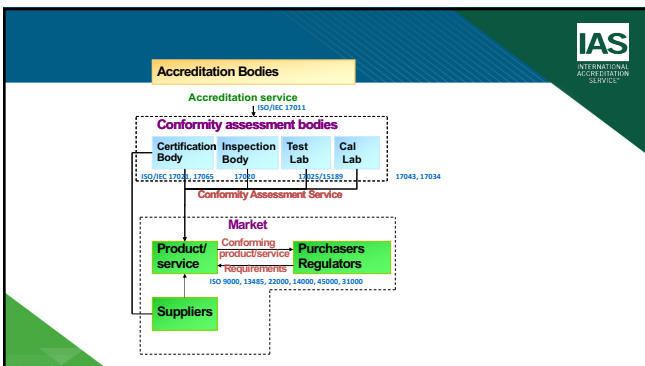
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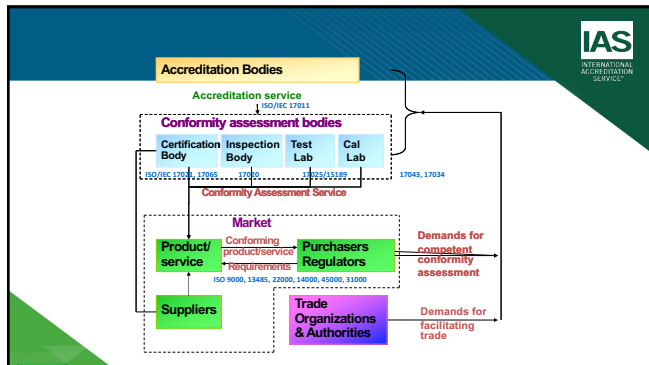
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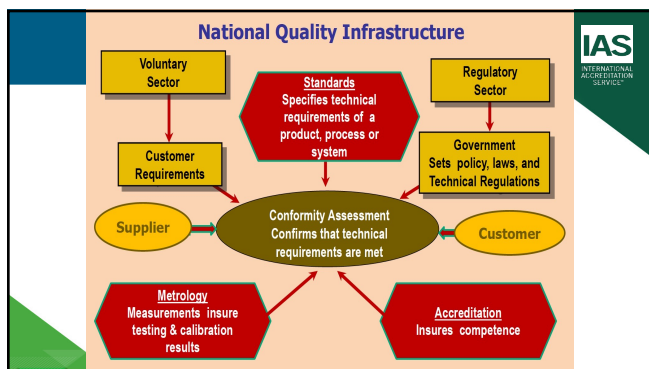
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Part of the National Quality Infrastructure

A National Quality Infrastructure describes the main NQI components important for each nation. These are:

- Metrology – A national metrology institute signatory to the international agreements on metrology. Calibration.
- Standardization – This means the use of standards and technical regulations.
- Conformity Assessment – Testing, calibration, inspection, certification, proficiency testing, reference materials, and accreditation.
- Accreditation – Accreditation of conformity assessment bodies and internationally recognised by ILAC, IAF (soon to be replaced by GLOBAC) and their regions.

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Conformity Assessment Principles



Let's review the Conformity Assessment Principles on pages 7-9 of the Course Handbook.

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Principles to Establish Trust



ISO/IEC 17065 Annex A listing of the principles

- Impartiality
- Competence
- Confidentiality and openness
 - Confidentiality
 - Openness
 - Access to information
- Responsiveness to complaints and appeal
- Responsibility

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ISO/IEC 17020:2026



Introduction:

This document provides requirements for the competence, impartiality and consistent operation of inspection bodies...

- A. [True](#)
B. [False](#)

25

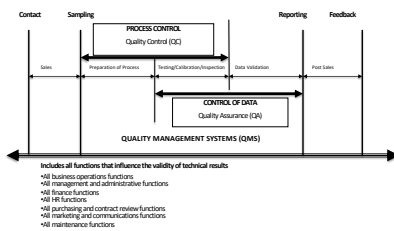
ISO/IEC 17020:2026



- “Conformity assessment — Requirements for the operation of various types of bodies performing inspection”
- Principles and requirements for the competence, consistency and impartiality of the inspection bodies inspecting **designs, products, processes, services and installed plant**.

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The Scope of IB Operations



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Inspection



- More subjective than testing and calibration – more based on inspector experience than knowledge of the science.
- Less involved than product, service or process certification
- Includes examination of installed plant (eg: medical gas piping systems)
- Requires full determination of conformance to requirements (technical standards and laws).
- Same quality system approaches as for product certification and calibration/testing.
- Inspection requirements are primarily driven by regulatory needs. The alternatives can be draconian.

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Inspection Body Examples

- Welding inspection
- Building materials inspection
- Food safety (meat and plant) inspection
- Construction inspection, including lightning protection
- Solar panel and wind turbine inspections
- Shipbuilding components
- Crime Scene Investigation
- Non-destructive inspection
- Software and Hardware inspections (ie: electronic gaming devices)
- Billboard structural inspection
- Plant inspection
- Air Quality inspection
- Label inspection
- E-mobility inspection
- Regulatory inspections of vessels
- EMC inspections of vehicles

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Inspection Processes

Planning

Inspection

Decision

Scope

Administrative

Evaluation

Marking

• Products, processes, services, installed plant
• Limitations

• Fees
• Legal requirements
• Obligations

• Test requirements (standards)
• Inspection requirements to demonstrate conformance

• General identification / misrepresentation
• Use of Inspection Marks/Certificates

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