

## ISO/IEC 27001:2022 Test of Understanding Level 2 – Professional

### Test Syllabus

The main purpose of the ISTO Test of Understanding (the “Test”) is to offer an evidence-based qualification to professionals who have demonstrated an appreciation of the intent and an accurate understanding of the requirements (and the non-requirements) of the standard, including its applicability and underlying management principles. Such knowledge and skills are crucial in providing a value-adding service related to the standard, be it implementation, advisory or auditing.

The Test of Understanding is not an auditor qualification. There are no questions directly related to auditing.

The topics set out in 1.1 to 1.3 are not intended to limit the subject matter or be all inclusive of what might be covered in the Test. Candidates will be expected to apply their knowledge to organizations with different sizes and complexity.

#### 1.1. **Applicability (A)**

- ISO/IEC 27001 purpose
- ISO/IEC 27001 intended outcomes
- Scope and boundaries of an information security management system
- ISO/IEC 27001 Applicability (Clause 4.3)

#### 1.2. **Concepts, principles and Terminologies (Co, T)**

##### Information security

- Information security management & information security management principles
- Typical commonly known legal requirements relevant to a sector  
(*E.g. Protection of personal data, cybercrime legislation*)
- Typical measurement of information security performance  
(*E.g. System availability, mean time between failures, information security breaches/incidents*)

##### ISO/IEC 27000:2018 terms and definitions

- From Clause 3.1 to Clause 3.77 (77 Terms)

## Management Systems

- Risk-based thinking
- The hierarchy and interrelationship of documented information within the management system, as well as the associated risks
- Root cause analysis and simple analytical tools such as Pareto Analysis
- The application of the Plan-Do-Check-Act cycle within the management system
- Typical measurements of management system performance  
(*E.g. Training hours, achievement of objectives, improvements achieved, number of nonconformities*)

## ISO/IEC 27001:2022 ISMS requirements structure

- Interrelationship between leadership and commitment, policy, objectives, planning, resources, operations, monitoring and measurement, analysis and evaluation and continual improvement
- Sequence of activities in the requirements of the standard

### **1.3. Clause reference, Requirements and Unspecified requirements (C, U, R, Ac, E)**

#### **Clause Reference (C)**

- Identify the clause reference of a particular ISO/IEC 27001 requirement.  
(*E.g. The requirement to determine competence is given in clause 7.2a.*)

#### **Requirements versus Unspecified requirements (R, U)**

- Requirements specified in the ISO/IEC 27001 standard  
(*E.g. Conduct management review*)
- Differentiate from non-requirements  
(*E.g. Clause 5.1 does not require a strategic plan; Clause 6.1.1 does not require a formal method for risk management or a documented risk management process.*)

## Key requirements of the ISO/IEC 27001 ISMS standard: **Management System related**

### **Planning**

- Context, interested parties' requirements, risks/opportunities & actions to address
- Leadership and commitment
- Information security policy, objectives and actions to achieve
- Roles, responsibilities and authorities
- System changes control

## **Performance evaluation and improvement**

- Monitoring and measurement
- Analysis and evaluation
- Internal audit
- Management review
- Correction
- Corrective action
- Improvement
- Management system non-requirements

Key requirements of the ISO/IEC 27001 ISMS standard: **Operations related**

### **Planning**

- Information security risk assessment
- Information security risk treatment
- Statement of Applicability

### **Support**

- Resources
- Competence and awareness
- Communication
- Documented information creation and control, and to maintain and retain

### **Operation**

- Operational planning & control
- Information security risk assessment
- Information security risk treatment
- Annex A: Organizational controls 5.1 – 5.37
- Annex A: People controls 6.1 – 6.8
- Annex A: Physical controls 7.1 – 7.14
- Annex A: Technological controls 8.1 – 8.34
- Support and operational non-requirements

## **Actual documented information requirements versus Erroneous Requirements (Ac, E)**

In order to provide flexibility to organizations of different sizes and background, ISO/IEC 27001 is written with minimal documentation requirements. Based on their contextual factors, organization shall determine the complexity of their documented information required to support their information security management system.

- Requirements specified in the ISO/IEC 27001 standard  
(*E.g. competence documented information*)
- Differentiate from non-documentation requirements  
(*E.g. management system manual; documented procedure; approved supplier list; signatures.*)

## Reference sources

The reference sources and sites detailed in this section contain information that will support your learning and better position you to pass your ISTO Test.

### ISO/IEC 27000:2016

Information technology — Security techniques — Information security management systems — Overview and vocabulary

### ISO/IEC 27001:2022

Information security management systems — Requirements

### ISO/IEC 27002:2022

Information security, cybersecurity and privacy protection — Information security controls

### Reference sites *(free of charge)*

<p><b>ISO Annex SL Appendix 2</b> (Blue text, 2021)</p>	<p><a href="https://www.iso.org/home.isoDocumentsDownload.do?t=3DUB2BXLDJOrhAXiWjrf7rRSaysnMtxTvmhHEIP2Dma5e3OjysOzdUgY0H0YFQit&amp;CSRFTOKEN=AZBD-906N-J6XN-QZCN-JNEV-60CV-FD0D-E7GV">https://www.iso.org/home.isoDocumentsDownload.do?t=3DUB2BXLDJOrhAXiWjrf7rRSaysnMtxTvmhHEIP2Dma5e3OjysOzdUgY0H0YFQit&amp;CSRFTOKEN=AZBD-906N-J6XN-QZCN-JNEV-60CV-FD0D-E7GV</a></p> <p><i>(There are minor changes introduced in the 2021 edition which were not included in the ISO/IEC 27001:2022)</i></p>
<p><b>ISO Annex SL</b> (IAF News)</p>	<p><a href="https://iaf.news/2021/07/02/new-2021-edition-of-annex-sl-for-management-system-standards/">https://iaf.news/2021/07/02/new-2021-edition-of-annex-sl-for-management-system-standards/</a></p>
<p><b>Cyber Security Guide</b> (Centre for Cyber Security, Belgium)</p>	<p><a href="https://ccb.belgium.be/sites/default/files/CCB-EN%20-C.pdf">https://ccb.belgium.be/sites/default/files/CCB-EN%20-C.pdf</a></p>
<p>European Union Agency for Network And Information Security (ENISA) <b>Information security and privacy standards for SMEs</b></p>	<p><a href="https://www.enisa.europa.eu/publications/standardisation-for-smes/at_download/fullReport">https://www.enisa.europa.eu/publications/standardisation-for-smes/at_download/fullReport</a></p>

<p>European Union Agency for Network And Information Security (ENISA)</p> <p><b>Security guide and online tool for SMEs when going Cloud</b></p>	<p><a href="https://www.enisa.europa.eu/news/enisa-news/enisa2019s-security-guide-and-online-tool-for-smes-when-going-cloud">https://www.enisa.europa.eu/news/enisa-news/enisa2019s-security-guide-and-online-tool-for-smes-when-going-cloud</a></p>
<p><b>A simplified approach to Risk Management for SMEs</b></p>	<p><a href="https://www.enisa.europa.eu/publications/archive/RMForSMEs">https://www.enisa.europa.eu/publications/archive/RMForSMEs</a></p>

## Other ISO References

<p><b>Glossary – Guidance on selected words used in the ISO 9000 family of standards</b></p>	<p><a href="https://www.iso.org/files/live/sites/isoorg/files/standards/docs/en/terminology-ISO9000-family.pdf">https://www.iso.org/files/live/sites/isoorg/files/standards/docs/en/terminology-ISO9000-family.pdf</a></p>
<p><b>Guidance on the requirements for Documented Information of ISO 9001:2015</b></p>	<p><a href="https://committee.iso.org/files/live/sites/tc176sc2/files/documents/ISO%209001%202015%20-%20Implementation%20guidance%20docs/ISO9001_2015_Guidance_on_Documented_Information.docx">https://committee.iso.org/files/live/sites/tc176sc2/files/documents/ISO%209001%202015%20-%20Implementation%20guidance%20docs/ISO9001_2015_Guidance_on_Documented_Information.docx</a></p>

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