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IT security techniques - Competence requirements for information security testers and evaluators - Part 2: Knowledge, skills and effectiveness requirements for ISO/IEC 19790 testers (ISO/IEC 19896-2:2018)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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IT security techniques - Competence requirements for
information security testers and evaluators - Part 2:
Knowledge, skills and effectiveness requirements for
ISO/IEC 19790 testers (ISO/IEC 19896-2:2018)

Techniques de sécurité IT - Exigences de compétence
pour l'information testeurs d'assurance et les
évaluateurs - Partie 2: Exigences en matière de
connaissances, de compétences et d'efficacité pour
ISO/IEC 19790 testeurs (ISO/IEC 19896-2:2018)

IT-Sicherheitstechniken - Kompetenzanforderungen an
Tester und Evaluatoren von Informationssicherheit -
Teil 2: Anforderungen an Wissen, Fähigkeiten und
Effektivität für ISO/IEC 19790-Tester (ISO/IEC 19896-
2:2018)

This European Standard was approved by CEN on 9 January 2023.

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EN ISO/IEC 19896-2:2023 (E)

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European foreword

The text of ISO/IEC 19896-2:2018 has been prepared by Technical Committee ISO/IEC JTC 1 "Information technology" of the International Organization for Standardization (ISO) and has been taken over as EN ISO/IEC 19896-2:2023 by Technical Committee CEN-CENELEC/ JTC 13 "Cybersecurity and Data Protection" the secretariat of which is held by DIN.

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IT security techniques — Competence requirements for information security testers and evaluators —

Part 2:
Knowledge, skills and effectiveness requirements for ISO/IEC 19790 testers

Techniques de sécurité IT — Exigences de compétence pour l'information testeurs d'assurance et les évaluateurs —

Partie 2: Exigences en matière de connaissances, de compétences et d'efficacité pour ISO / IEC 19790 testeurs



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ISO/IEC 19896-2:2018(E)

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT security techniques*.

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A list of all parts in the ISO/IEC 19896 series can be found on the ISO website.

Introduction

This document provides the specialized requirements to demonstrate knowledge, skills and effectiveness requirements of individuals in performing security testing projects in accordance with ISO/IEC 19790 and ISO/IEC 24759. ISO/IEC 19790 provides the specification of security requirements for cryptographic modules. Many certification, validation schemes and recognition arrangements have been developed using it as a basis. ISO/IEC 19790 permits comparability between the results of independent security testing projects. ISO/IEC 24759 supports this by providing a common set of testing requirements for testing a cryptographic module for conformance with ISO/IEC 19790.

One important factor in assuring comparability of the results of such validations or certifications is the knowledge, skills and effectiveness requirements of the individual testers responsible for performing testing projects.

ISO/IEC 17025, which is often specified as a standard to which testing facilities conform, states in 5.2.1 that “Personnel performing specific tasks shall be qualified on the basis of appropriate education, training, experience and/or demonstrated skills”.

The audience for this document includes validation and certification authorities, laboratory testing accreditation bodies, testing projects schemes, testing facilities, testers and organizations offering professional credentials and recognitions.

This document establishes a baseline for the knowledge, skills and effectiveness requirements of ISO/IEC 19790 testers with the goal of establishing conformity in the requirements for the training of ISO/IEC 19790 testing professionals associated with cryptographic module conformance testing programs.

[Annex D](#) illustrates the usefulness of this document by validators within a validation program.

IT security techniques — Competence requirements for information security testers and evaluators —

Part 2:

Knowledge, skills and effectiveness requirements for ISO/IEC 19790 testers

1 Scope

This document provides the minimum requirements for the knowledge, skills and effectiveness requirements of individuals performing testing activities for a conformance scheme using ISO/IEC 19790 and ISO/IEC 24759.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

ISO/IEC 17825, *Information technology — Security techniques — Testing methods for the mitigation of non-invasive attack classes against cryptographic modules*

ISO/IEC 18367, *Information technology — Security techniques — Cryptographic algorithms and security mechanisms conformance testing*

ISO/IEC 19790, *Information technology — Security techniques — Security requirements for cryptographic modules*

ISO/IEC 19896-1, *IT security techniques — Competence requirements for information security testers and evaluators — Part 1: Introduction, concepts and general requirements*

ISO/IEC 20085-1, *Information technology — Security techniques — Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules — Part 1: Test tools and techniques*

ISO/IEC 20085-2, *Information technology — Security techniques — Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules — Part: 2 Test calibration methods and apparatus*

ISO/IEC 20543, *Information technology — Security techniques — Test and analysis methods for random bit generators within ISO/IEC 19790 and ISO/IEC 15408*

ISO/IEC 24759, *Information technology — Security techniques — Test requirements for cryptographic modules*

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