



BSI Standards Publication

# Foundational Body of Knowledge for the ICT Profession (ICT BoK)

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Part 2: User Guide and Methodology

## National foreword

This Published Document is the UK implementation of CEN/TR 17748-2:2022.

The UK participation in its preparation was entrusted to Technical Committee IST/43, Information technology for learning, education and training.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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## Foundational Body of Knowledge for the ICT Profession (ICT BoK) - Part 2: User Guide and Methodology

Socle de connaissances pour les professionnels des TIC  
- Partie 2 : Guide de l'utilisateur et méthodologie

Europäischer Grundwissensbestand für den IKT-Beruf  
- Teil 2: Methodik und Benutzerhandbuch

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## European foreword

This document (CEN/TR 17748-2:2022) has been prepared by the Technical Committee CEN/TC 428 “ICT professionalism and digital competences”, the secretariat of which is held by UNI.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document is part of a series that consists of two parts:

- EN 17748-1,<sup>1</sup> *Foundational Body of Knowledge for the ICT Profession (ICT BoK) - Part 1: Body of Knowledge*;
- CEN/TR 17748-2, *Foundational Body of Knowledge for the ICT Profession (ICT BoK) - Part 2: User Guide and Methodology*.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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<sup>1</sup> Under preparation. Stage at the time of publication: prEN 17748-1.

## Introduction

EN 17748-1 Foundational Body of Knowledge for the ICT Profession (ICT BoK) was established as a tool to support mutual understanding and provide transparency of language through the articulation of **knowledge** required and deployed by Information and Communication Technology (ICT) professionals.

Similar to and complementary to the EN 16234-1:2019 (e-CF), that provides a common European language for ICT professional competence, the European ICT Foundational Body of Knowledge (ICT BoK) makes a substantial contribution to increasing transparency and maturity of the ICT Profession across Europe.

EN 17748-1 (ICT BoK) identifies knowledge and sub divides each knowledge unit into three elements:

- a) **common knowledge** applicable to all ICT professionals regardless of speciality;
- b) **base knowledge** that provides a foundation and underpins each of a range of different disciplines/specialisms;
- c) **specialized knowledge** normally, only applicable to in-depth, very specific expert knowledge.

For c) specialist knowledge, where applicable, sources of further specialist knowledge are signposted as examples to relevant in-depth complementary sources.

This document offers direction on how to adopt the EN 17748-1 (ICT BoK) approach from multiple user perspectives. Clause 4 provides the executive overview of EN 17748-1 (ICT BoK) scope, target groups, underlying principles, concepts and structure, including entry points for using the ICT BoK (4.5).

Clause 5 provides practical guidance for multiple applications of the standard by target groups and from different stakeholder perspectives. Learning Programme Provider guidance for applying the BoK is offered in 5.2, whilst users from an ICT operational environment are also provided with application guidance including real-world examples in 5.3.

Clause 6 explains the methodology adopted to develop EN 17748-1 (ICT BoK).

To support users of EN 17748-1 (ICT BoK) the following narrative provides an overview of the design philosophy and principles adopted during the standard's construction. In addition, these underpinning principles will provide guidance for future standard updates.

### The EN 17748-1 (ICT BoK) Guiding Principles:

**EN 17748-1 (ICT BoK) is an enabler; it is designed to be a tool to empower users, not to restrict them.** The document provides a structure and content for application by many types of users from organizations in the private and public sector, educational institutions, learning program and certification providers of all types including Vocational and Educational Training (VET), Higher education (HE) and Continuous Professional Development (CPD), and ICT organizations from demand and supply side, social partners, professional associations and individuals. In this broad application context, the document is designed to support common understanding, it is not intended to mandate the use of each and every word used in the document.

**EN 17748-1 (ICT BoK) is an integrated component of the four building blocks of ICT professionalism** for Europe and offers the identification of essential knowledge elements common to the ICT profession.

**EN 17748-1 (ICT BoK) is neutral and intrinsically linked to the EN 16234-1 (e-CF).** It does not follow the specific interests of a few major influencers; it has been developed and will be maintained through the CEN standards process.

**EN 17748-1 (ICT BoK) expresses common, base and specialized knowledge of relevance to the ICT profession** in the following context; knowledge, alongside skill and attitude, is an integrated component of competence as defined in the EN 16234-1 (e-CF).

**Knowledge units are the core structure of EN 17748-1 (ICT BoK);** they are labelled to enable easy access from viewpoints relevant to the user. Flexibility of application is provided by tagging from four perspectives; the EN 16234-1 (e-CF) areas and competences, CWA 16458 (ICT Professional Role Profiles), and from traditional knowledge domains.

**Knowledge units are articulated at a general level of granularity** and each is further detailed by the provision of knowledge elements presented in a common template. Knowledge elements are accompanied by examples of the application of each.

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## 1 Scope

This document supports understanding, adoption and use of EN 17748-1 (ICT BoK) that provides a reference of 42 knowledge units as required and applied in the Information and Communication Technology (ICT) professional work environment that can be understood across Europe.

This document supports Information and Communication Technology (ICT) stakeholders dealing with ICT Professional knowledge, skills and competences from multiple perspectives, in particular:

- educational institutions, learning programmes and certification providers of all types including:
  - Vocational and Educational Training (VET);
  - Higher education (HE);
  - Continuous Professional Development (CPD);
- ICT service, user and supply organizations;
- ICT professionals, managers and human resource (HR) departments;
- social partners (trade unions and employer associations), professional associations, accreditation, validation and assessment bodies;
- market analysts and policy makers;
- and other organizations and stakeholders in public and private sectors across Europe

to adopt, apply and use the Foundational Body of Knowledge in their environment as one fundamental building block of ICT Professionalism for Europe.

See Figure 1 for illustration of document scope and target groups.