



ETSI Security Conference 2025

Standardisation Education: A Strategic Tool to Bridge the Cybersecurity Skills Gap

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Your first standards meeting



Think back to when you started

- What do you wish you had known?
- What advice would you give?

Challenges in creating awareness and engagement

- Cybersecurity skills training growing as threats increase
 - For example: Cyber Skills Academy created by the EU and Cyber Essentials and Cyber First in the UK
- At what level of education do we need to engage standards education?
 - Just at ISCED 8 (PhD)? Or right down to ISCED 1 (Primary)
- For standards takers
 - Knowledge of how to obtain and use different types of standards
 - Legal aspects
 - ISCED 6 (degree) and above
 - Increase visibility through Learning Objectives – more focus in EUR ACE
 - Is this enough?
- For standards makers
 - Creating standards
 - The standardisation environment
 - Legal aspects
 - ISCED 7/8 (Masters and PhD)



What is ETSI doing?

- GA approved a training budget – November 2023
- Created a full-time education role (Claire)
- Contracted a part-time standardisation expert (Howard)
- Generated a growing set of educational videos
 - Short, snappy, engaging
 - Available on ETSI and YouTube
- Developed Tech Trivia (quiz game)
- Working with other European standardisation educators
- Developing an online training program
- Developing teacher toolkits

Website eLearning Area

- ETSI's eLearning area is an easily accessible resource for standardization education.
- This area benefits academia, professionals, and NSOs.
- <https://www.etsi.org/education/learn>
- We invite all to use or promote the area.

Note: Soon to be replaced by a content-rich LMS

NEW! - STANDARDS AND REGULATION IN EUROPE



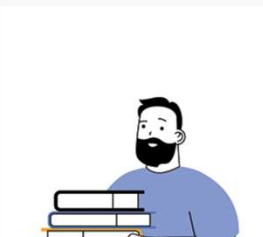
- [Part 1: Introduction](#)
- [Part 2: CEPT](#)
- [Part 3: European Union](#)
- [Part 4: CEPT equipment standardization & radio spectrum management](#)

MASTERING TECH STANDARDIZATION - BASICS



- [What are standards and why are they important?](#)
- [SDOs - What are they?](#)
- [Who does what and how can I find them?](#)
- [How are standards written?](#)
- [Let's look at a standard](#)
- [3GPP](#)
- [3GPP Newcomers "quick-start" guide](#)

MORE ELEARNING VIDEOS



- [Research and Innovation](#)
[See also our Research webpage](#)
- [Introduction to ETSI Industry Specification Groups](#)
- [Software Development in ETSI](#)
- [SRdAP guidelines](#)
- [The journey to make ETSI standards](#)
- [How we make better standards](#)
- [The essential when drafting ETSI Deliverables](#)
- [Benefitting from my ETSI Membership](#)

- Basics course - 6 Sessions of around 10 minutes
 - Session 1 - What are standards, and why are they important?
 - Session 2 - SDOs (in both Europe and globally). What are they?
 - Session 3 - Introduction to ETSI.
 - Session 4: How standards are written
 - Session 5 - An example of a standard.
 - Session 6 - 3GPP and the Gs.
- Standards and regulation in Europe
 - 4 Videos on how ETSI work with the EC to create ENs

... and many more, such as:

- Research and Innovation
- Software Development in ETSI
- The crucial role played by NSOs and NSBs

ETSI involvement in education related projects

- **EC HLF:** Horizontal Workstream 1 on Education and Skills (**HWES**):
ETSI Participates in HLF Pledge-related activities. A task group was created to propose a Pan-European Certificate certifying a recognised level of knowledge in standardisation, which should be implemented by the ESOs.
- **EDU4Standards EAG:** EDU4Standards promotes the integration of standardisation into education and training across Europe by developing shared resources and fostering collaboration – participation in the summer schools.
- **Digital Europe:** Collaboration with Digital Europe for education about EU legislation such as the AI Act, CRA (Cyber Resilience Act), ESPR (Ecodesign Directive) – MoU signed May 2025
- **StandICT EUOS** (EU observatory for ICT standardisation): Standards Education Group (SEG). Part of the StandICT.eu 2026 project
- **EURAS:** the European Academy for Standardisation - promoting standardisation research and publication of research results
- **University of Luxembourg/ILNAS** – MoU signed for MTECH programme
- **University of Utrecht** – 2 MoUs signed (2025 and 2025) for summer school lectures
- **DEFSTAND:** provides advice and support on training and education on Defence Standardisation - MoU Signed (2 videos in the Learn area)
- **ISO:** Member of ISO's Education about Standardisation (EaS) Network
- **MSP R&I projects:** Task 4 on education

Tech Trivia Game

- Creation of an ice-breaker card game for educators/trainers.
- It is a fun, engaging tool to raise awareness about standardisation.
- Available from ETSI upon request

Teaser

- <https://www.youtube.com/watch?v=nbPIWDoCgUs&list=PLINY888NYhGAEHqGCNHkjni7bUJEX1rbz&index=25&pp=iAQB>

Video of rules

- <https://www.etsi.org/images/videos/education/ETSI-TechTrivia-rules.mp4>

Rules

- <https://www.etsi.org/images/files/education/ETSI-TechTrivia-rules.pdf>

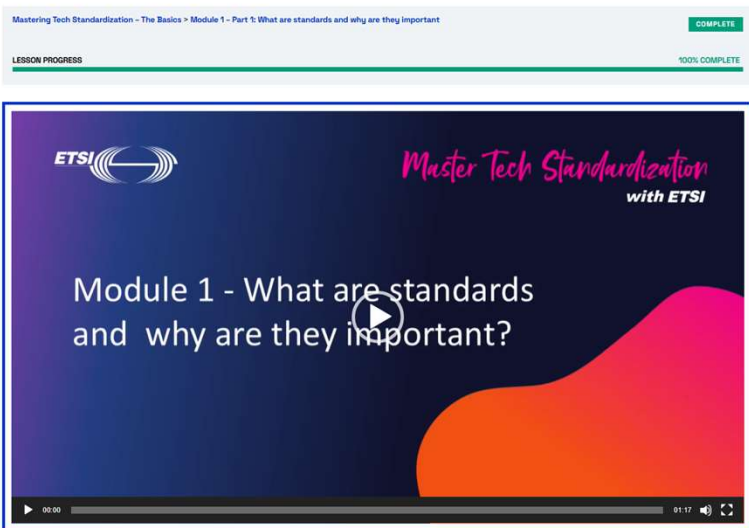




Learning Management System

- Currently being finalised
- To be hosted on the new ETSI website
- LearnDash chosen to host content
- Course material being developed
- Uses modern online learning flow
 - Modules with lessons
 - Short video
 - Quiz

Module 1 – Part 1: What are standards and why are they important



Welcome to the first module on Mastering Tech Standardisation with ETSI.

The basics course is broken down in 6 modules. In each module you will see a short video and answer some questions.

We will start with looking at what standards are.



- Users register for free access
- Registration kept separate from ETSI EOL accounts
- Progress tracked with online certificates issued on successful completion
- Internal dashboard to monitor uptake, usage and quiz scores

Lesson 2 Quiz

Mastering Tech Standardization – The Basics > Module 1 – Part 1: What are standards and why are they important > Lesson 2 Quiz

SI units are more commonly known as

The imperial system

The metric system

The international system

The International Treaty of the Meter was signed in

1775

1875

1975

The SI unit of temperature is

Celsius

Fahrenheit

Kelvin

- A new multipart textbook on EU standardisation
- Continued development of video-based training
- Grow the LMS content
- Create Partnerships
- Collaboration for the creation of a pan-European certificate
- Universities with standards-aware educators
 - Teacher toolkits
- Encouraging standards engineers to talk at Universities
- Internships at ETSI



- In which areas would you like to receive more education
 - Cybersecurity?
 - AI?
 - Quantum safe?
 - There must be more
- If you have ideas, talk to Claire and Howard
- We can help draft scripts, make videos, and create LMS content



Master Tech Standardisation
with ETSI

Thank you!

Contact us: education@etsi.org

...and remember, you can meet many
ETSI people in the Lobby by the
ETSI stand