e-CF in the European Software Skills Alliance

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ESSA I The project

ESSA is a European project funded under the Erasmus+ programme.

ESSA delivers a new strategic approach ("Blueprint") to sectoral cooperation on software services skills development.
Why this project?

- Urgent market needs for software skills and professionals
- Software skills mismatches between education and training offering and industry requirements
- Digital performance discrepancies across Europe

Source: Digital Economy and Society Index
Roadmap

Learning instruments **to skill, upskill, and reskill individuals** into high demand professional software roles across Europe.

2021

Needs Analysis and Software Skills Strategy

2022

Software skills VET curricula, certification

2023 >

VET training programmes testing and rollout

e-CF is used as a **common reference point** across all project outputs
### e-CF a key tool to shape ESSA scope

#### Focus on 14 e-Competences relevant to software roles

- A.6. Application Design
- A.8. Sustainability Management
- B.1. Application Development
- B.2. Component Integration
- B.3. Testing
- B.4. Solution Development
- B.5. Documentation Production
- B.6. ICT Systems Engineering
- C.3. Service Delivery
- C.4. Problem Management
- C.5. Systems Management
- D.7. Data Science and Analytics
- D.11. Needs Identification
- E.2. Project & Portfolio Management
- E.8. Information Security Management

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![Diagram of EQF and e-CF relationship](image)

**Figure 1:** EQF and e-CF relationship, e-CF transversal aspects and ESSA first draft focus in the e-CF
EUROPEAN ICT PROFILE FAMILY TREE

**Generation 1: SEVEN FAMILIES**
- PROCESS IMPROVEMENT
- BUSINESS
- TECHNICAL
- DESIGN
- DEVELOPMENT
- SERVICE & OPERATION
- SUPPORT

**Generation 2: 30 EUROPEAN ICT PROFESSIONAL ROLE PROFILES**
- Digital Transformation Leader
- Business Information Manager
- Quality Assurance Manager
- Business Analyst
- Developer
- Data Administrator
- Account Manager
- Product Owner
- CIO
- Information Security Manager
- Systems Analyst
- Digital Media Specialist
- Systems Administrator
- Digital Educator
- Scrum Master
- ICT Operations Manager
- Project Manager
- Enterprise Architect
- Test Specialist
- Network Specialist
- Information Security Specialist
- DevOps Expert
- Data Scientist
- Service Manager
- Systems Architect
- Technical Specialist
- Digital Consultant
- Data Specialist
- Solution Designer
- Service Support

**ESSA scope**
Software Services relevant profiles (from EU ICT Profiles)
draft

**ESSA Software-specific Generation 3: CREATE/ RELATE YOUR CONTEXT-SPECIFIC ICT PROFILES (Jobs, Curricula...)**
How e-CF guides our work:

• Supported the identification and formulation of the occupational profiles for software roles
• Helped identify and clarify sector skills gaps by using a common language for data collection (both demand and supply)

We have identified the **Most Needed Software Skills and Roles** — now and in the future based on the **6 ICT roles profiles** related to software services.

e-Cf will keep guiding our work when defining the **Software Skills Strategy** and consolidating/suggesting adjustments to the role profiles based on our results and defining educational profiles.
Next steps

e-CF will continue to guide our work when developing the **educational and training instruments**, notably by:

- Providing detailed input for the definition of (programme) learning outcomes based on necessary competences and skills
- Providing different proficiency levels that support mapping with EQF/ECVET
Get involved

- Receive updates
- Help us shape the Software Skills Strategy or Curricula

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