

PROPOSALS FOR SOME ANSWERS

Question 17

Provisional title	Suggested content
Privacy management	Related to GDPR competences
IT implementation and management of IT services legal compliance	Technical skills and management skills to achieve and manage IT services legal compliance: privacy, data protection, internet, security, interoperability etc.

Question 18

Proposal to breakdown some competences regarding programming paradigm (imperative / object-oriented) and about type of systems (operational / informational):

Competence concerned	Suggestion for adjustment
A.5 (Architecture Design)	Decompose in several competences: Operational Architecture Design Informational Architecture Design (Business Intelligence Architecture Design) IoT Architecture Design (Industry 4.0 Architecture Design)
A.6 (Application Design)	Decompose in several competences: User Application Design (Backend and Frontend of applications for users) Data Script Design (ETL and Algorithms for Data Science, BI and IoT) Videogame Application Design
B.1 (Application Development)	Decompose in several competences: Imperative Programming Object-oriented Programming
B.2 (Component Integration)	Decompose in several competences: Software Integration Hardware and Network Integration Data Integration
D.2 (ICT Quality Strategy Development)	Decompose in several competences: Software Quality Strategy Development Hardware and Network Quality Strategy Development Data Quality Strategy Development

Question 19

- Add professional ethics aspect in the definition of competences with proficiency levels (dimension 3) 3 and 4 (EQF level 6 and EQF level 7)
- Add knowledge of legal regulation of IT activities and services in the definition of competences with proficiency levels (dimension 3) 3 and 4 (EQF level 6 and EQF level 7)
- Add some reference to the knowledge and management of regulated professional activities. In Europe this scenario can be different depending on each country, so it should be considered in a general way in the professional practice definition.

Question 23

According to the 17, 18 and 19 answers.

Question 24

Trends observed	Further comments
Blockchain and Distributed Ledger Technologies (DLT) Business Intelligence Data Science: BigData analyse and management Video Games Internet of Things (Industry 4.0 / Smart-X) Cyber-Physical Systems design, implementation and management (Industry 4.0)	Devices, software, architectures... Design, implementation and management.

Question 25

Please specify the aspects	Any suggestions on where you would position them?
User Experience Data Quality Paradigms of Coding Operational/Informational Architectures Ethics Issues Legal Regulation Issues IST Innovation (Information Systems and Technology Innovation) Security	Design, implementation and management. Security by desing

Question 26

Add a sixth dimension for attitudes and relational skills.

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