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Erasmus+ Programme
of the European Union



Questionnaire for employees:

Specifying Graduate Competencies

Please specify the competencies that graduates of information systems need to have.

Competency Areas and Competency Categories

1. Business Continuity and Information Assurance

- 1.1. Managing and implementing cybersecurity
- 1.2. Monitoring system operations
- 1.3 Managing system recovery
- 1.4 Managing Information Systems risks
- 1.5 Protecting IT assets
- 1.6 Developing information assurance strategy
- 1.7 Continuity engineering
- 1.8 Implementing and managing quality audit processes
- 1.9 Assuring safety throughout systems lifecycle

2. Systems Development and Deployment

- 2.1 Selecting between systems development approaches
- 2.2 Managing plan-based, hybrid, and agile development approaches
- 2.3 Specifying and documenting systems requirements
- 2.4 Implementing and testing an application
- 2.5 Designing systems
- 2.6 Installing and integrating a new application
- 2.7 Managing external systems development resources
- 2.8 Managing IS development projects

3. Data, Information and Content Management

- 3.1. Selecting appropriate data management technologies based on the needs of the domain
- 3.2. Securing domain data and protecting user privacy and organizational intellectual property using appropriate technical solutions
- 3.3. Designing and implementing a data warehouse using a contemporary architectural solution
- 3.4. Creating a scalable infrastructure for large amounts of data using parallel and distributed technologies
- 3.5. Developing and implementing organizational information management policies and processes
- 3.6. Integrating and preparing data captured from various sources for analytical use
- 3.7. Selecting and using appropriate analytics methods
- 3.8. Designing and implementing architectures for organizational content management systems

4. Ethics, Impacts and Sustainability

- 4.1. Designing and managing sustainable IT operations
- 4.2. Managing IT facilities sustainably
- 4.3. Aligning IT with organizational sustainability policy
- 4.4. Managing sustainable procurement practice
- 4.5. Managing contracts ethically
- 4.6. Maintaining compliance with legislation, regulations, and standards
- 4.7 Ensuring that protection of privacy and integrity guide all IT practices
- 4.8 Maintaining an ethical culture
- 4.9 Understanding the ethical implications of IS-related decisions

5. Enterprise Architecture

- 5.1. Understanding enterprise architecture principles and the value it provides to businesses
- 5.2. Participating in building and maintaining an EA
- 5.3. Communicating and deploying an EA
- 5.4. Using an EA to influence IS/IT related organizational improvement projects

6. IS Strategy and Governance

- 6.1 Conducting IS strategic analysis
- 6.2 Managing IS/IT sourcing strategies
- 6.3 Engaging in IS strategic planning
- 6.4 Planning and implementing IS governance
- 6.5 Planning for and improving sustainability

7. Innovation, Organizational Change and Entrepreneurship

- 7.1. Understanding where and how to monitor the technology environment
- 7.2 Engaging in entrepreneurial thinking
- 7.3 Developing a business plan
- 7.4 Innovating by exploiting an emerging method or technology
- 7.5 Understanding how to apply creative problem solving to technology-related issues
- 7.6 Contributing to organizational development
- 7.7 Identifying opportunities for and designing process improvement
- 7.8. Analyzing and documenting business activities

8. IS Management and Operations

- 8. 1 Know and apply widely used Project Management tools and techniques
- 8.2 Managing the IS/IT function
- 8.3 Managing IS/IT staff
- 8.4 Managing IS/IT service production
- 8.5 Managing IS/IT sourcing models
- 8.6 Managing and coordinating information resources
- 8.7 Implementing relevant IT governance frameworks within the organization based on strategic guidance
- 8.8 Understanding laws and regulations directly affecting IS/IT management and operations
- 8.9 Managing IS/IT projects and programs
- 8.10 Managing IS/IT project portfolios
- 8.11 Managing software and hardware development and maintenance

9. IT Infrastructure

- 9.1 Specifying and monitoring infrastructure contracts
- 9.2 Negotiating contracts and managing infrastructure vendors
- 9.3 Risk management
- 9.4 Designing virtualization solutions
- 9.5 Designing infrastructure solutions using external service provider(s) (cloud computing)

- 9.6 Maintaining a set of standards and policies and understand the key laws and regulations to relevant infrastructure decisions
- 9.7 Monitoring emerging technologies to understand their potential to support the domain

7 Do you work in accordance with Your qualification? Choose one variant

From the point of view of professional position	Yes	No	It is difficult to answer
From the point of view of executable tasks	Yes	No	It is difficult to answer
From the point of view of professional qualification	Yes	No	It is difficult to answer
From the point of view of direction, specialty of preparation	Yes	No	It is difficult to answer

8 What segment of IT of industry do you work in?

- IT outsourcing
- IT outstaffing
- Offshore programming,
- Local Ukrainian IT labor market
- Games technologies
- IT service,
- Sale of computer technics
- Kibersecurity
- Other product startup