



## **Examination Questions**

### **Certified Professional for Software Architecture**

#### **Foundation Level**

**International Software Architecture Qualification Board e. V.**

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1 -- Id: Q-15-01-20

How many definitions of 'software architecture' exist? Please select one option. [1 point]

*A-Question: Choose one answer.*

- ☐ One universal definition
- ☐ More than one, less than ten
- ☐ Ten or more

2 -- Id: Q-15-01-33

Which people, information, artefacts or documents do you require as a minimum in order to qualitatively assess the architecture of a software system? Select the three most important items! [2 points]

*P-Question: From the following 7 answers select 3 that fit best.*

- ☐ The system's architect(s)
- ☐ Responsible domain expert, alternatively: current documentation of quality requirements
- ☐ System operator (administrators or similar)
- ☐ Architecture documentation
- ☐ Profiling or tracing information
- ☐ Log files
- ☐ Dependency graph of the building blocks or results of a static code analysis

3 -- Id: Q-15-01-50

What is the objective of using dependency inversion? [1 point]

*P-Question: From the following 4 answers select 2 that fit best.*

- ☐ Large building blocks should not depend upon small building blocks.
- ☐ Building blocks should depend on each other exclusively through interfaces.
- ☐ A building block should be independent of the concrete implementations of the building blocks it uses.
- ☐ Building blocks should be able to create building blocks they require more easily.

4 -- Id: Q-15-01-39

What information should be included in a building block's black box description and what should not?

[1 point]

*K-Question: Assign all answers.*

- | should                   | should not               |                         |
|--------------------------|--------------------------|-------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Interfaces              |
| <input type="checkbox"/> | <input type="checkbox"/> | Responsibilities        |
| <input type="checkbox"/> | <input type="checkbox"/> | Internal structure      |
| <input type="checkbox"/> | <input type="checkbox"/> | Notes on implementation |

5 -- Id: Q-15-01-53

Which quality attributes referring to ISO 9126 - resp. 25010 - are improved by using a layered architecture pattern? Please select the 2 best matching answers! [1 point]

*P-Question: From the following 5 answers select 2 that fit best.*

- ☐ Efficiency
- ☐ Portability
- ☐ Security
- ☐ Stackability
- ☐ Maintainability

6 -- Id: Q-15-01-07

Which of the following are the three most important tasks of software architects?

[2 points]

*P-Question: From the following 6 answers select 3 that fit best.*

- ☐ Setting up and maintaining the development environment
- ☐ Documenting and communicating the design
- ☐ Managing integration testing
- ☐ Negotiating daily rates for the developers
- ☐ Illustrating the consequences of architectural decisions to other parties
- ☐ Clarifying and questioning requirements

7 -- Id: Q-15-01-30

Which UML diagrams are suitable for documenting the building-block view, and which are not? [1 point]

*K-Question: Assign all answers.*

suitable	not suitable	
<input type="checkbox"/>	<input type="checkbox"/>	Test-case diagram
<input type="checkbox"/>	<input type="checkbox"/>	Package diagram
<input type="checkbox"/>	<input type="checkbox"/>	Activity diagram
<input type="checkbox"/>	<input type="checkbox"/>	Sequence diagram
<input type="checkbox"/>	<input type="checkbox"/>	Class diagram