



# OMG-OCSMP-MBA400<sup>Q&As</sup>

OMG-Certified Systems Modeling Professional - Model Builder –  
Advanced





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**QUESTION 1**

Choose the correct answer

A project is developing a distributed information system that will be "open" in the following ways.

(a)

The system-level models will be published for the world to see.

(b)

Others will be encouraged to submit change requests to the system models. (Changes will be identified by stereotypes.)

(c)

Others will be encouraged to develop additional subsystems and plug-ins

The information system is expected to be in use for at least ten years

What is(are) the most important consideration(s) in selecting a SysML modeling tool for this project?

A. the ability to enforce strict compliance with XMI, AP233 and SysML standards

B. compatibility with XMI, the ability to enforce strict compliance with UML4SysML, and the ability to query models based on user-defined criteria

C. compatibility with XMI, the ability to enforce strict compliance with the SysML standard and the ability to query models based on user-defined criteria

D. compatibility with AP233; the ability to enforce strict compliance with the SysML standard; and the ability to query models based on user-defined criteria

Correct Answer: C

These are the most important considerations in selecting a SysML modeling tool for this project because they ensure that the tool can support the openness and longevity of the distributed information system. XMI (XML Metadata Interchange) is a format specification that enables the interchange of objects and models through an XML formatted file. It is based on a metamodel that defines the mapping of MOF concepts to XML concepts. By having compatibility with XMI, the tool can import and export SysML models in terms of XML elements and attributes. This allows the tool to publish the system-level models for the world to see and to receive change requests from others in a standardized format. The tool can also use stereotypes to identify changes made by others. The SysML standard is an extension of the UML standard that defines a modeling language for systems engineering. It specifies the abstract syntax, semantics, and notation for SysML concepts and diagrams. By having the ability to enforce strict compliance with the SysML standard, the tool can ensure that the system-level models are consistent and interoperable with other tools and models that follow the same standard. The tool can also support others to develop additional subsystems and plug-ins using SysML concepts and diagrams. By having the ability to query models based on user-defined criteria, the tool can enable users to search and filter system-level models according to their needs and interests. The tool can also support visualization and analytics of system-level models using queries.

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**QUESTION 2**



Choose the correct answer

Which statement is true regarding a typical model-based systems engineering methodology?

- A. The activities in a typical systems engineering methodology are applied iteratively
- B. The activities in a typical systems engineering methodology are applied sequentially.
- C. The activities in a typical systems engineering methodology can be performed in any order
- D. The activities in a typical systems engineering methodology work just as well for specialty engineering activities

Correct Answer: A

A systems engineering methodology is a collection of related processes, methods, and tools that support the discipline of systems engineering in a specific context. The activities in a typical systems engineering methodology are applied iteratively, meaning that they are repeated and refined until a satisfactory solution is achieved. The activities are not applied sequentially, meaning that they are not performed in a fixed order without revisiting previous steps. The activities cannot be performed in any order, because they have logical dependencies and prerequisites. The activities do not work just as well for specialty engineering activities, because they may require different processes, methods, and tools

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### QUESTION 3

Choose the correct answer-

Which technique allows a user to objectively determine the best means of implementing a particular function?

- A. a trade study
- B. an objective analysis
- C. operational research
- D. a requirements analyst

Correct Answer: A

A trade study is a method for making a decision between competing alternatives based on a set of criteria, such as cost, performance, reliability, etc. A trade study allows a user to objectively determine the best means of implementing a particular function by evaluating and comparing the pros and cons of each alternative. A trade study can also help identify trade-offs and risks associated with each alternative

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### QUESTION 4

Choose the correct answer

Understanding OCL is important to the understanding of which item(s)?

- A. a typical high-level domain model
- B. tool-generated XMI for a SysML model



- C. both the UML and SysML specifications
- D. software developers\' modifications to a SysML model

Correct Answer: C

OCL is important to the understanding of both the UML and SysML specifications because it is used to define the semantics and constraints of the modeling elements and relationships in both languages. OCL is part of the UML standard and is adopted by SysML as a complementary language. OCL can also be used to specify queries, expressions and operations on models. OCL is not directly related to a typical high-level domain model, tool-generated XML for a SysML model, or software developers\' modifications to a SysML model. References: OMG-Certified Systems Modeling Professional - Model Builder ?Advanced (OCUP2-ADV) Examination Guide Version 1.0, Section 4.3

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### QUESTION 5

Choose the correct answer

What information is required to define a viewpoint in SysML in addition to stakeholders?

- A. affects, methods, process purpose
- B. concerns, languages, methods, purpose
- C. concerns languages, tools, purpose
- D. methods, languages, rationale, responsibilities

Correct Answer: B

The information that is required to define a viewpoint in SysML in addition to stakeholders is concerns, languages, methods, and purpose. Concerns are aspects of interest about a system that are addressed by a viewpoint. Languages are notations or modeling techniques used by a viewpoint to represent a view. Methods are processes or guidelines for constructing or interpreting views that conform to a viewpoint. Purpose is an explanation of why and how a viewpoint addresses stakeholder concerns

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