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#1 Process Certification Guide

OMG-OCSMP-MBA400

OMG SYSML MBA CERTIFICATION QUESTIONS & ANSWERS

Exam Summary – Syllabus – Questions

OMG-OCSMP-MBA400

OMG-Certified Systems Modeling Professional - Model Builder - Advanced

90 Questions Exam – 64 / 90 Cut Score

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Table of Contents

Know Your OMG-OCSMP-MBA400 Certification Well:

The OMG-OCSMP-MBA400 is best suitable for candidates who want to gain knowledge in the OMG SysML Certifications. Before you start your OMG-OCSMP-MBA400 preparation you may struggle to get all the crucial OCSMP Advanced materials like OMG-OCSMP-MBA400 syllabus, sample questions, study guide.

But don't worry the OMG-OCSMP-MBA400 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the OMG-OCSMP-MBA400 syllabus?
- How many questions are there in the OMG-OCSMP-MBA400 exam?
- Which Practice test would help me to pass the OMG-OCSMP-MBA400 exam at the first attempt?

Passing the OMG-OCSMP-MBA400 exam makes you OMG-Certified Systems Modeling Professional - Model Builder - Advanced. Having the OCSMP Advanced certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

OMG-OCSMP-MBA400 SysML MBA Certification Details:

Exam Name	OMG-Certified Systems Modeling Professional - Advanced
Exam Code	OMG-OCSMP-MBA400
Exam Fee	USD $350
Residents of English speaking Countries Exam Duration	105 Minutes
All others Exam Duration	135 Minutes
Number of Questions	90
Passing Score	64 / 90
Format	Multiple Choice Questions

Schedule Exam	**Pearson VUE**
Sample Questions	**OMG SysML MBA Exam Sample Questions and Answers**
Practice Exam	**OMG-Certified Systems Modeling Professional - Model Builder - Advanced Practice Test**

OMG-OCSMP-MBA400 Syllabus:

Topic	Details	Weights
METHODOLOGY-RELATED CONCEPTS AND PRACTICES INCLUDING ASSESSMENT OF THE QUALITY OF THE MODEL	- Understanding all the steps of a project development from start to final design. Understanding the different aspects of a system development methodology. Choosing a system development methodology. Using OCL to state formal constraints. Assessing model quality.	**35%**
CONCEPTS FOR ADAPTING SYSML INCLUDING METAMODELING, PROFILES, MODEL LIBRARIES & VIEWPOINTS	- Customizing the Language • Rationale and motivations for using the different available mechanisms for extending the language. - Metamodel-based Extensions of SysML • Understanding metamodeling concepts, capabilities and limitations. - Profiles • Creating and using a profile, including defining stereotypes, their properties and constraints. - Model Libraries • Creating and using a model library. - Viewpoint • Specifying a viewpoint and using that	**25%**

Topic	Details	Weights
	viewpoint to support model development.	
INTEGRATING SYSML WITH OTHER MODELING LANGUAGES SUCH AS UML, MARTE, UPDM & MODELICA	- UML • Integrating SysML and UML models to support the transition from systems to software design. - MARTE • Extending the modeling of hardware and software to real-time and embedded environments. - UPDMTM • Supporting the transition from a MoDAF or DoDAF enterprise architecture expressed using UPDM, into systems architectures using SysML. - Modelica • Preparing SysML models for analysis in Modelica-based tools.	**20%**
INTEGRATING SYSML MODELING TOOLS WITH OTHER TYPES OF TOOLS & TOOL SELECTION CRITERIA	- Tool Integration Approaches • Integrating a SysML modeling tool with other engineering tools (e.g., requirements management, software or hardware development, model analysis, etc.). Configuring SysML models in configuration management tools including the use of the MOF versioning standard for model versioning. - Model Interchange • Understanding the reasons for performing model interchange and issues that must be	**20%**

Topic	Details	Weights
	considered. Understanding different interchange mechanisms. Using model interchange standards such as XMI, RIF and AP233. - Tool Selection Criteria	

OMG-OCSMP-MBA400 Sample Questions:

Question: 1

Which of the following is a core feature of MARTE that enhances SysML for real-time environments?

a) Activity sequencing
b) Use case modeling for real-time systems
c) Resource allocation modeling and real-time scheduling
d) Block definition for hardware elements

Answer: c

Question: 2

When using OCL to specify constraints in SysML, which of the following is a key feature of the language?

a) It provides formal validation of constraints on model elements.
b) It defines behavioral transitions in state machines.
c) It sequences actions in activity diagrams.
d) It assigns resources to system components.

Answer: a

Question: 3

In what way does the integration of SysML with UML benefit the system engineering process?

a) It helps manage system state transitions.
b) It ensures compatibility with enterprise frameworks like DoDAF.
c) It facilitates the transition from systems engineering to software engineering by bridging the two modeling languages.
d) It enables real-time analysis and performance optimization.

Answer: c

Question: 4

How can metamodel-based extensions be applied to support specialized domains in SysML?

a) By modifying the SysML language at a metamodel level to introduce new concepts
b) By adding stereotypes to existing blocks
c) By simplifying state transitions within a system
d) By defining parametric relationships between system components

Answer: a

Question: 5

In SysML, what is the purpose of assessing model quality throughout the system development process?

a) To generate more iterations
b) To ensure that the system design meets stakeholder requirements and functions as intended
c) To define resource allocation
d) To reduce the complexity of state machines

Answer: b

Question: 6

Which model interchange standard facilitates communication between SysML tools and aerospace system models?

a) XMI
b) UML
c) Modelica
d) AP233

Answer: d

Question: 7

How does SysML integrate with UML to support the transition from systems to software design?

a) By using parametric diagrams
b) By utilizing activity diagrams to model real-time operations
c) By allocating resources based on system requirements
d) Through the use of UML class diagrams and SysML block diagrams for systems and software representation

Answer: d

Question: 8

When specifying a viewpoint in SysML, what is the primary factor to consider?

a) The system's behavior over time
b) The allocation of resources within the system
c) The sequence of actions in the activity diagram
d) The stakeholder's concerns and how they relate to the model

Answer: d

Question: 9

What is the purpose of using OCL (Object Constraint Language) in SysML to assess model quality?

a) To define the behavior of blocks in a state machine
b) To formally specify constraints and conditions on model elements
c) To allocate communication resources between elements
d) To sequence actions in activity diagrams

Answer: b

Question: 10

What is a key consideration when selecting a tool for integrating SysML with other tools?

a) The tool's ability to sequence real-time operations
b) The tool's support for XMI, RIF, or AP233 model interchange standards
c) The tool's capacity to model hardware components
d) The tool's compatibility with activity diagramming

Answer: b

Study Guide to Crack OMG OCSMP Advanced OMG-OCSMP-MBA400 Exam:

- Getting details of the OMG-OCSMP-MBA400 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the OMG-OCSMP-MBA400 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the OMG provided training for OMG-OCSMP-MBA400 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.

- Read from the OMG-OCSMP-MBA400 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on OMG-OCSMP-MBA400 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

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