

OMG-OCSMP-MBI300

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OMG-OCSMP-MBI300

[OMG-Certified Systems Modeling Professional - Model Builder - Intermediate](#)

90 Questions Exam – 55 / 90 Cut Score

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Discover More about the OMG-OCSMP-MBI300 Certification

Are you interested in passing the OMG-OCSMP-MBI300 exam? First discover, who benefits from the OMG-OCSMP-MBI300 certification. The OMG-OCSMP-MBI300 is suitable for a candidate if he wants to learn about SysML Certifications. Passing the OMG-OCSMP-MBI300 exam earns you the OMG-Certified Systems Modeling Professional - Model Builder - Intermediate title.

While preparing for the OMG-OCSMP-MBI300 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The OMG-OCSMP-MBI300 PDF contains some of the most valuable preparation tips and the details and instant access to useful OMG-OCSMP-MBI300 study materials [just at one click](#).

OMG-OCSMP-MBI300 SysML MBI Certification Details:

Exam Name	OMG-Certified Systems Modeling Professional - Intermediate
Exam Code	OMG-OCSMP-MBI300
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	55 / 90
Format	Multiple Choice Questions
Schedule Exam	Pearson VUE
Sample Questions	OMG SysML MBI Exam Sample Questions and Answers
Practice Exam	OMG-Certified Systems Modeling Professional - Model Builder - Intermediate Practice Test

OMG-OCSMP-MBI300 Syllabus:

Topic	Details
<p>BUILDING A BEHAVIORAL MODEL USING THE FULL SET OF SYML CONSTRUCTS - 33%</p>	
<p>How To Use SysML to Model System Behavior</p>	<ul style="list-style-type: none"> - Building An Activity Diagram Using the Full Set of SysML Constructs <ul style="list-style-type: none"> • I/O Flow: Optional vs. required, streaming, rates (continuous and discrete), no buffer, overwrite, token ordering (FIFO, LIFO, etc.), data store/central buffer, object node state, parameter set, and probabilities. Control Flow: Control Operators: Flow final, and advanced control operations (decision input/ join specification). Control pins and interruptible regions. Actions: Primitive actions. Constraints: Pre/post conditions and defining properties on activities. - Building A Sequence Diagram Using the Full Set of SysML Constructs <ul style="list-style-type: none"> • Messages, Lifelines: Selectors, lifeline decomposition and activations (including nested). Interaction Operators: Advanced interaction operators, combining interaction operators and nesting interaction operators. Interaction Decomposition: Interaction use or references and gates. Constraints: Observations and timing constraints and state invariants. - Building A State Machine Diagram Using the Full Set of SysML Constructs <ul style="list-style-type: none"> • Understanding that a SM represents the states of a block (Friedenthal). Transitions: Graphical transition notation, internal transitions and deferred events. State Hierarchy: Composite states and orthogonal

Topic	Details
	<p>composite states. Pseudo States: Junction state, choice, history states - shallow, deep, fork and join, entry and exit points, and terminate nodes. Nested State Machines: Submachine states. Connection points.</p>
<p>BUILDING A STRUCTURAL MODEL USING THE FULL SET OF SYSML CONSTRUCTS - 29%</p>	
<p>Building the Block Definition Diagram</p>	<p>- Adding Block Features: Receptions, ordered and unique collections, read only properties, property redefinition, constraint (reference to parametrics below), distributed properties. Block Relationships: Shared vs composite aggregation (white vs black diamond), association blocks and generalization sets. Value Types: Enumerations, structured value types ("position vector" with XYZ structure). Blocks and Behavior: Classifier behavior (See Friedenthal), owned behaviors, activity hierarchies on bdds. Defining instances.</p>
<p>Building the Internal Block Diagram</p>	<p>- Block Properties: Creating a property specific type and notation for part multiplicities on ibd's. Ports: Flow Ports: Flow specifications and properties, conjugated ports, and compatibility rules including item flows and ports. Standard Ports: Defining required and provided interfaces, typing a port with required and provided interfaces (i.e., with a provided interface and with a classifier with use/realize relationship). Port delegation (for both flow ports and standard ports). Connectors: Nested connector ends, item flows/item properties, conveyed classifiers, typing item properties, ownership of item properties, and connector properties</p>
<p>BUILDING A PARAMETRIC MODEL USING THE FULL SET OF SYSML CONSTRUCTS - 11%</p>	
<p>How To Use Constraints in SysML to Model</p>	<p>- Nesting of constraints, trade study support (Annex E.4), measures of effectiveness, objective functions,</p>

Topic	Details
System Analyses: Defining Constraints on A Block Definition Diagram Using the Full SysML Feature Set	alternatives, and constraining flows.
BUILDING A REQUIREMENTS MODEL USING THE FULL SET OF SYSML CONSTRUCTS - 10%	
Building A Requirements Diagram Using the Full Set of SysML Constructs	- Specialized requirements (SysML Annex C: functional, interface, performance, physical and design constraints), establishing requirements traceability (derive, verify, satisfy, refine, trace and containment), tracing requirements in tables and matrixes, representing verification and testing, test context as well as test case.
Building A Use Case Model Using the Full Set of SysML Constructs	- Relating use cases to behavioral models - activity diagrams and state machines, and relating use cases to requirements.
MODEL CONCEPTS - 6%	
Modeling guidelines and Practices	- Application of modeling guidelines and practices
ORGANIZING A SYSTEM MODEL USING THE FULL SET OF SYSML CONSTRUCTS - 6%	
Building A Package Diagram Using the Full Set of SysML Constructs	- Package and element import, defining and using view and viewpoint, building and using model libraries, as well as awareness of assessment criteria (e.g., structured queries) and activities.
DEFINING STEREOTYPES, PROPERTIES, AND CONSTRAINTS (EXTENSION, SUBCLASS) - 5%	

Broaden Your Knowledge with OMG-OCSMP-MBI300 Sample Questions:

Question: 1

Which construct in SysML is used to define the internal behavior of a block, such as activities or operations?

- a) State Machine Diagram
- b) Flow Specification
- c) Parametric Diagram
- d) Classifier Behavior

Answer: d

Question: 2

In a SysML state machine diagram, which pseudo-state allows for returning to a previously active state in a composite state?

- a) Fork
- b) Shallow History
- c) Deep History
- d) Junction

Answer: b

Question: 3

Which of the following best describes "FIFO" in the context of token ordering within a SysML activity diagram?

- a) First-In-First-Out token processing
- b) Last-In-First-Out token processing
- c) Immediate execution of tokens as they arrive
- d) Random token ordering

Answer: a

Question: 4

What does a streaming input represent in a SysML activity diagram?

- a) A discrete value that arrives at specific intervals
- b) A continuous flow of input values that arrive while the activity is executing
- c) An optional input
- d) A set of probabilistic inputs

Answer: b

Question: 5

Which SysML diagram is most commonly used in conjunction with a parametric diagram to define the structural elements being analyzed?

- a) Use Case Diagram
- b) Block Definition Diagram (BDD)
- c) State Machine Diagram
- d) Activity Diagram

Answer: b

Question: 6

In a block definition diagram, what is the purpose of a "classifier behavior"?

- a) To allocate responsibility to system elements
- b) To define the behavior of a block or its instances
- c) To specify the physical structure of the block
- d) To connect ports between blocks

Answer: b

Question: 7

Which of the following SysML constructs is used to represent the flow of objects and data between actions in an activity diagram?

- a) Object Node
- b) Control Node
- c) Call Behavior Action
- d) Decision Node

Answer: a

Question: 8

How do modeling guidelines and practices support the traceability of system requirements in SysML?

- a) By defining system behavior
- b) By establishing relationships between requirements and model elements
- c) By defining communication protocols between system components
- d) By sequencing activities within a model

Answer: b

Question: 9

In a SysML activity diagram, what is the significance of a "no buffer" object node?

- a) It stores data until the next action is ready.
- b) It buffers multiple tokens for execution.
- c) It guarantees first-in-first-out processing.
- d) It prevents any accumulation of tokens, immediately sending each token to the next action.

Answer: d

Question: 10

What does "measures of effectiveness" refer to in a SysML parametric model?

- a) A set of criteria used to assess the performance of a system under constraints
- b) The flow of information between blocks
- c) A behavior model for the system
- d) The termination of a state machine

Answer: a

Avail the Study Guide to Pass OMG-OCSMP-MBI300 SysML MBI Exam:

- Find out about the OMG-OCSMP-MBI300 syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the [OMG-OCSMP-MBI300 syllabus](#), it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the OMG-OCSMP-MBI300 training. Joining the OMG provided training for OMG-OCSMP-MBI300 exam helps a candidate to strengthen his practical knowledge base from the certification.
- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the [OMG-OCSMP-MBI300 sample questions](#) and boost your knowledge

- Make yourself a pro through online practicing the syllabus topics. OMG-OCSMP-MBI300 practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

Passing the OMG-OCSMP-MBI300 exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.

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