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Fee
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Format
Multiple choice (text and images)

Languages
English & Japanese. Use of translation apps during the exam is prohibited.

Passing Score
>=60/90 correct answers or >=67% correct answers

Prerequisites
Passing score on SysML Model User exam.

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Validity
Certifications expire 5 years after exam date. Take the same or higher level exam to extend certification validity.
STANDARD COVERED

- System Modeling Language (SysML) v1.2

RECOMMENDED STUDY MATERIALS

- A Practical Guide to SysML: The Systems Modeling Language, 3rd Edition (Friedenthal, Moore and Steiner): Chapters 3 (Getting Started with SysML) and 4 (An Automobile Example Using the SysML Basic Feature Set). All authors contributed to the SysML specification. *Authors contributed to the standard and exam.
- SysML Distilled: A Brief Guide to the Systems Modeling Language (Delligatti)
- SysML for Systems Engineering (Perry): *Authors contributed to the standard.
- The OMG SysML Tutorial
- Simulation-Based Design Using SysML: Part 1: A Parametrics Primer (Peak)
- MBSE Practices in Telescope Modeling (Weilkiens)
- Hybrid SUV Example (SysML v1.2)
- Cookbook for MBSE with SysML
- SysML Notations and Conventions
- Model-Based Systems Engineering (MBSE) with the Systems Modeling Language (SysML) (Wolfrom)
### MODELING STRUCTURE AND BEHAVIOR

**Building a Behavioral Model Using the Basic Set of SysML Constructs (24%)**
- How system behavior is captured in the model.
- Building an activity diagram using the basic set of SysML constructs.
- Building a sequence diagram using the basic set of SysML constructs.
- Building a state machine diagram using the basic set of SysML constructs.

**Building a Structural Model Using the Basic Set of SysML Constructs (23%)**
- How system structure is captured in the model.
- Building the block definition diagram.
- Building the internal block diagram.

**Building a Parametric Model Using the Basic Set of SysML Constructs (10%)**
- How system analyses are captured using constraints in the model.
- Defining constraints on a block definition diagram.
- Building the parametric diagram using the basic set of SysML constructs.

### THE MODEL

**Model Concepts (10%)**
- What is a model?
- Relationship between model and diagram.

**Organizing a System Model Using the Basic Set of SysML Constructs (9%)**
- Building the model hierarchy.
- Building a package diagram using the basic set of SysML constructs.

### MODELING REQUIREMENTS

**Building a Requirements Model Using the Basic Set of SysML Constructs**
- How system requirements are captured in the model.
- Building a requirements diagram using the basic set of SysML constructs.
- Requirements relationships to other model elements.
- Representing requirements in tables and matrixes.
- Building a use case model using the basic set of SysML constructs.

### CAPABILITIES AND FEATURES

**Allocation Relationships (4%)**
- Allocation Relationships

**Customizing a model (4%)**
- Applying a stereotype (but not creation of profiles or stereotypes).