# OMG-OCSMP-MBA400 Q&As

OMG-Certified Systems Modeling Professional - Model Builder – Advanced

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**QUESTION 1**

Choose the correct answer

What can be included in a model library?

A. any model element

B. any model element that Is contained In a profile

C. any model element that can be contained in a package

D. only those model elements that are re-used in the model

Correct Answer: C

Any model element that can be contained in a package can be included in a model library. A model library is a package with the stereotype applied to it. It contains reusable model elements that can be imported into other models by using an ?mport?relationship. Any kind of model element that can be owned by or nested within a package can be part of a model library, such as blocks, constraints, values, units, etc.

**QUESTION 2**

Choose the correct answer A company is executing a large distributed engineering project. More than a dozen engineers are contributing to the system model, working from different locations spread across three time zones The lead engineer has decided that it is essential to maintain a single model. The department director has expressed concern that the project may have trouble employing its engineers productively while still maintaining configuration control of this common model.

Which configuration management strategy is likely to be most successful*?

A. Use a centralized repository for the model files Allow only engineers in the eastern-most time zone to upload changes to the model files in the mornings, and the western engineers in the afternoons. Either can download and view the model files at any time. This will assure maximum productivity while minimizing the possibility of collisions

B. Use a configuration management tool to manage model elements. Assign ownership of model elements at the package level- Only the owner of a package may make changes to elements in that package Note that each relationship between model elements must be contained within a single package

C. Use a configuration management tool to manage model elements. Allow packages to be checked out by any user for editing, which locks the elements therein contained Packages may be viewed in read-only mode by any user at any time All model users receive alerts when a package they are viewing has been modified and checked-in. and changes are highlighted Packages may not remain checked out overnight

D. Co-locate the modeling team Trying to maintain configuration of a model across a distributed team is extremely difficult and may not succeed

Correct Answer: C

This configuration management strategy is likely to be most successful because it allows the engineers to work on the system model collaboratively and concurrently, while maintaining configuration control and avoiding conflicts. A

configuration management tool is a software tool that helps manage changes to model elements and track their versions

and history. A package is a grouping mechanism that can contain any kind of model element, such as diagrams, blocks,

activities, etc. By using a configuration management tool, the engineers can check out packages for editing, which locks the elements in that package and prevents other users from modifying them. The engineers can also view packages in

read-only mode by any user at any time, which allows them to see the latest version of the model without affecting it. The engineers can also receive alerts when a package they are viewing has been modified and checked-in by another user,

and see the changes highlighted. This way, the engineers can stay informed and synchronized with the model updates. By not allowing packages to remain checked out overnight, the engineers can avoid holding up the work of other users

who need toaccess or modify those packages.

References: https://www.omg.org/ocsmp/ocsmp-adv- exam.htm

https://sysml.org/tutorials/sysml-diagram-tutorial/

**QUESTION 3**

Choose the correct answer.

Every night the computers at the data center of Bank F, located in Asia, must complete an analysis of the previous day s financial transaction data. Bank F plans to merge with Bank G, located In South America,Increasing the volume of data by an order of magnitude. The design team charged with expanding the facilities to handle this additional load is modeling the data center with SysML using the MARTE profile Which capability of MARTE will help determine whether the existing processors at the data center can handle the anticipated data increase?

A. support for schedulability analysis

B. support for embedded systems such as the processors

C. support for comparative analysis of processor architectures

D. support for modeling scheduled events that occur in different time zones

Correct Answer: A

The capability of MARTE that will help determine whether the existing processors at the data center can handle the anticipated data increase is support for schedulability analysis. Schedulability analysis is a technique for verifying that a set of tasks can be executed within given time constraints on a given platform. MARTE provides concepts and annotations for modeling tasks, resources, scheduling policies, deadlines, etc., and for performing schedulability analysis using various methods and tools. References: https://www.omg.org/ocsmp/ocsmp-adv- exam.htm https://www.omg.org/spec/MARTE/1.2/About-MARTE/

**QUESTION 4**

Choose the coned answer

What characterizes a complete SysML model?

A. All of its element trace back to requirements that are within the scope of the project

B. It uses all SysML diagram types to model all aspects of the system or part being modeled.

C. It includes a complete set of SysML constructs and associations for the system being modeled

D. It has all the necessary information relevant at the level of abstraction that the model represents.

Correct Answer: D

A complete SysML model is one that has all the necessary information relevant at the level of abstraction that the model represents. A complete model does not necessarily have to trace back to all requirements, use all diagram types, or include all constructs and associations. A complete model should capture the essential features and properties of the system or part being modeled, without being too detailed or too abstract. A complete model should also be consistent, coherent and correct. References: OMG- Certified Systems Modeling Professional - Model Builder ?Advanced (OCUP2-ADV) Examination Guide Version 1.0, Section 4.1

**QUESTION 5**

Choose the correct answer

in executing a model-based systems engineering methodology, what should the first step m building the model be?

A. Define the domain model structure

B. Define the initial model organization.

C. Define the initial set of system requirements

D. Define the business or enterprise use cases.

Correct Answer: B

The first step in building the model in executing a model-based systems engineering methodology should be to define the initial model organization. The initial model organization defines the structure and scope of the model, such as the packages, views, viewpoints and frameworks that will be used to organize the model elements and diagrams. The initial model organization provides the foundation and context for the subsequent steps in building the model, such as defining the domain model structure, defining the initial set of system requirements or defining the business or enterprise use cases. The initial model organization can also help establish the modeling conventions and standards that will be followed throughout the model development process. References: OMG-Certified Systems Modeling Professional - Model Builder ?Advanced (OCUP2-ADV) Examination Guide Version 1.0, Section 4.1