

UML: Preparing for the OCUP 2 Advanced Certification Exam

Course code: GOC4624

The OCUP 2 Advanced certification exam (OMG Certified UML Professional 2) is the third and highest level for testing UML knowledge. It seamlessly follows on from the UML_OCUP2I level.

While the previous levels confirmed your ability to create, read and design advanced models, the Advanced level positions you as an absolute expert. It gives the market a clear signal that you have perfect control over metamodeling, fUML semantics and are able to precisely adapt and extend the UML language for the specific needs of any complex project.

At this highest level of abstraction, self-study of the original OMG specification is extremely demanding and difficult to grasp. Therefore, our training will guide you effectively and clearly through even the most complex corners of the UML standard. The course covers all required areas (requirements are detailed on the OMG website) and will specifically prepare you for the specific logic and tricks of the most difficult test questions.

Who is the course intended for

- **Active UML users**
- (IT analysts, business analysts) who already hold the Intermediate certification (UML_OCUP2I course) and want to advance their modeling skills to the absolute top.
- **Solution architects and methodologists**
- who need to precisely define metamodels, create their own UML profiles and understand the semantics of the language in depth.

What we will teach you

- Introduce and explain all areas necessary for successful completion of the OCUP 2 Advanced certification exam.
- Penetrate the deepest levels of UML abstraction and learn to understand the language at the level of its own metamodel.
- Try out sample test questions, analyze the correct answers together, and understand the logic on which the certification is built.

Required entry knowledge

- Active knowledge of UML at the UML_OCUP2I training level.
- Practical experience with UML (specifically with diagrams, knowledge of which is required to successfully pass the exam).

Teaching methods

- Clear and interactive explanation that translates the formal theory of UML into human language and connects it with practice.
- Joint solution of simulated certification questions with a detailed analysis of why specific variants are correct or incorrect.

Study materials

- Presentation of the material in printed or online form.

Course syllabus

The syllabus is based on the exam requirements:

- **Basic structures**
- (templates, profiles, information flows)
- **Classification**
- (generic types, templates, collaboration)
- **Structured classifiers**
- (subsets and their union)
- **Behavior definition**

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- – advanced techniques (multiple runs of the same instance, context of nested behavior)
- **State machines**
- (event postponement, redefinition)
- **Activities**
- (control types, transformations, selections, variables)
- **Actions**
- (another set of actions)
- **Interactions**
- (coregion, combined fragments, general order)
- **Metamodeling**
- (4 levels of abstraction):
- Profiles, stereotypes
- MOF
- fUML
- Alf

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