

Szkolenie: Oracle
Object-Oriented Analysis and Design Using UML

FORMA SZKOLENIA	MATERIAŁY SZKOLENIOWE	CENA	CZAS TRWANIA
Stacjonarne	Cyfrowe	5000 PLN NETTO*	5 dni
Stacjonarne	Tablet CTAB	5600 PLN NETTO*	5 dni
Metoda dlearning	Cyfrowe	5000 PLN NETTO*	5 dni
Metoda dlearning	Tablet CTAB	5000 PLN NETTO*	5 dni

* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00

Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

Cel szkolenia:

This **Object-Oriented Analysis and Design Using UML** training teaches you how to effectively use object-oriented technologies and software modeling as applied to a software development process. Expert Oracle University instructors present one practical, complete, object-oriented analysis and design (OOAD) road map from requirements gathering to system design.

Plan szkolenia:

- Examining Object-Oriented Concepts and Terminology
 - Describe the important object-oriented (OO) concepts
 - Describe the fundamental OO terminology
- Introducing Modeling and the Software Development Process
 - Describe the Object-Oriented Software Development (OOSD) process
 - Describe how modeling supports the OOSD process
 - Describe the benefits of modeling software
 - Explain the purpose, activities, and artifacts of the following OOSD workflows (disciplines): Requirements Gathering, Req
- Creating Use Case Diagrams
 - Justify the need for a Use Case diagram
 - Identify and describe the essential elements in a UML Use Case diagram
 - Develop a Use Case diagram for a software system based on the goals of the business

- owner
 - Develop elaborated Use Case diagrams based on the goals of all the stakeholders
 - Recognize and document use case dependencies using UML notation for extends, includes, and generalization
 - Describe how to manage the complexity of Use Case diagrams by creating UML packaged views
- Creating Use Case Scenarios and Forms
 - Identify and document scenarios for a use case
 - Create a Use Case form describing a summary of the scenarios in the main and alternate flows
 - Describe how to reference included and extending use cases.
 - Identify and document non-functional requirements (NFRs), business rules, risks, and priorities for a use case
 - Identify the purpose of a Supplementary Specification Document
- Creating Activity Diagrams
 - Identify the essential elements in an Activity diagram
 - Model a Use Case flow of events using an Activity diagram
- Determining the Key Abstractions
 - Identify a set of candidate key abstractions
 - Identify the key abstractions using CRC analysis
- Constructing the Problem Domain Model
 - Identify the essential elements in a UML Class diagram
 - Construct a Domain model using a Class diagram
 - Identify the essential elements in a UML Object diagram
 - Validate the Domain model with one or more Object diagrams
- Transitioning from Analysis to Design using Interaction Diagrams
 - Explain the purpose and elements of the Design model
 - Identify the essential elements of a UML Communication diagram
 - Create a Communication diagram view of the Design model
 - Identify the essential elements of a UML Sequence diagram
 - Create a Sequence diagram view of the Design model
- Modeling Object State Using State Machine Diagrams
 - Model object state
 - Describe the essential elements of a UML State Machine diagram
- Applying Design Patterns to the Design Model
 - Define the essential elements of a software pattern
 - Describe the Composite pattern

- Describe the Strategy pattern
- Describe the Observer pattern
- Describe the Abstract Factory pattern
- Introducing Architectural Concepts and Diagrams
 - Distinguish between architecture and design
 - Describe tiers, layers, and systemic qualities
 - Describe the Architecture workflow
 - Describe the diagrams of the key architecture views
 - Select the Architecture type
 - Create the Architecture workflow artifacts
- Introducing the Architectural Tiers
 - Describe the concepts of the Client and Presentation tiers
 - Describe the concepts of the Business tier
 - Describe the concepts of the Resource and Integration tiers
 - Describe the concepts of the Solution model
- Refining the Class Design Model
 - Refine the attributes of the Domain model
 - Refine the relationships of the Domain model
 - Refine the methods of the Domain model
 - Declare the constructors of the Domain model
 - Annotate method behavior
 - Create components with interfaces
- Overview of Software Development Processes
 - Explain the best practices for OOSD methodologies
 - Describe the features of several common methodologies
 - Choose a methodology that best suits your project
 - Develop an iteration plan
- Overview of Frameworks
 - Define a framework
 - Describe the advantages and disadvantages of using frameworks
 - Identify several common frameworks
 - Understand the concept of creating your own business domain frameworks
- Course Review
 - Review the key features of object orientation
 - Review the key UML diagrams
 - Review the Requirements Analysis (Analysis) and Design workflows

Wymagania:

- Understand object-oriented concepts and methodology
- Demonstrate a general understanding of programming, preferably using the Java programming language
- Understand the fundamentals of the systems development process

Poziom trudności



Certyfikaty:

Uczestnicy szkoleń otrzymają zaświadczenia o ukończeniu kursu sygnowane przez firmę Oracle.

Prowadzący:

Autoryzowany wykładowca Oracle.