



# Certificate in Unified Modeling Language

**Vskills Certifications**

Vskills Brochure



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Unified Modeling Language (UML) is a standardized visual modeling language used in software engineering and other fields to document, design, and communicate the structure and behavior of complex systems. It provides a common and consistent way to represent various aspects of a system, making it easier for teams to understand and work on complex projects. UML is not limited to software development; it can be used for modeling and designing systems in a wide range of domains, such as business processes, databases, and more.

UML is a visual modeling language that helps teams in software development and other fields to create clear and standardized representations of systems, facilitating design, communication, and documentation throughout the project's lifecycle.

## Why should one take this certification?

This Course is intended for professionals and graduates wanting to excel in their chosen areas. It is also well suited for those who are already working and would like to take certification for further career progression.

Earning Vskills UML Professional Certification can help candidate differentiate in today's competitive job market, broaden their employment opportunities by displaying their advanced skills, and result in higher earning potential.

## Who will benefit from taking this certification?

Job seekers looking to find employment in web development, or IT departments of various companies, students generally wanting to improve their skill set and make their CV stronger and existing employees looking for a better role can prove their employers the value of their skills through this certification.

## Test Details

- **Duration:** 60 minutes
- **No. of questions:** 50
- **Maximum marks:** 50, Passing marks: 25 (50%)

There is no negative marking in this module.

## Fee Structure

Rs. 3,499/- (Excludes taxes)\*

\*Fees may change without prior notice, please refer <http://www.vskills.in> for updated fees

### Companies that hire Vskills Certified UML Professionals

UML professionals are in great demand, especially it companies are looking for skilled UML Professionals. Here is the list of some of the companies hiring UML Professionals, IBM, Barclays, Accenture, JP Morgan, Siemens, Capgemini, Flipkart, Amazon, Toptal, Mindtree, Genpact, HSBC etc.

# Table of Contents

## **1. UML Fundamentals**

- 1.1 Introduction to UML
- 1.2 Purpose and benefits of UML
- 1.3 History and evolution of UML
- 1.4 UML Diagram Types

## **2. UML Diagram Types**

- 2.1 Class Diagrams
- 2.2 Use Case Diagrams
- 2.3 Sequence Diagrams
- 2.4 Activity Diagrams
- 2.5 State Machine Diagrams
- 2.6 Communication Diagrams
- 2.7 Component Diagrams
- 2.8 Deployment Diagrams
- 2.9 Object Diagrams
- 2.10 Package Diagrams
- 2.11 Timing Diagrams (Optional)

## **3. UML Diagram Elements**

- 3.1 Classes and Objects
- 3.2 Relationships (Association, Aggregation, Composition, Inheritance, etc.)
- 3.3 Attributes and Operations
- 3.4 Multiplicity and Role
- 3.5 Packages and Namespaces
- 3.6 Stereotypes and Profiles

## **4. UML Diagram Notations**

- 4.1 UML symbols and icons
- 4.2 Diagram layout and organization
- 4.3 Diagram readability and conventions

## **5. Modeling Concepts**

- 5.1 Abstraction
- 5.2 Encapsulation
- 5.3 Inheritance
- 5.4 Polymorphism
- 5.5 Modularity

## **6. Use Case Modeling**

- 6.1 Actors
- 6.2 Use Case Diagrams
- 6.3 Use Case Scenarios
- 6.4 Use Case Relationships (includes include, extend, and generalization)

## **7. Class Modeling**

- 7.1 Class Diagrams
- 7.2 Associations
- 7.3 Attributes and Methods
- 7.4 Visibility and Access Control
- 7.5 Inheritance and Generalization
- 7.6 Aggregation and Composition

## **8. Behavioral Modeling**

- 8.1 Sequence Diagrams
- 8.2 Activity Diagrams
- 8.3 State Machine Diagrams
- 8.4 Communication Diagrams
- 8.5 Interaction Overview Diagrams

## **9. Structural Modeling**

- 9.1 Component Diagrams
- 9.2 Deployment Diagrams
- 9.3 Object Diagrams
- 9.4 Package Diagrams

## **10. Advanced Topics**

- 10.1 UML Profiles and Stereotypes
- 10.2 UML Diagram Extensibility
- 10.3 Model Transformation
- 10.4 Model-Driven Architecture (MDA)
- 10.5 UML Tools and Software

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