

Java Training: Object Oriented Programming & More (JAV101, 4 jours)

Description

The course Object Oriented Programming & More (Java Training) discusses object oriented design and implementation in Java. A brief review of the fundamental elements of the Java language is followed by an introduction to the world of object oriented programming including classes, inheritance & polymorphism. The training includes abstract classes, constructors & destructors, collection classes, generics, files & streams, serialization, multithreaded programming & more. This course is a complete exploration of Java programming.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Java Architecture

The Application Tiers: 1, 2 and 3-tiered applications
Distributed Applications: Technology and Infrastructure
Web Applications: Technology and Infrastructure
The Java Answer
Packages and Files
J2EE Architecture
Debugging

Java Basics

Arithmetic Operators
Mathematical Functions
Strings, Globalization and Conversions
More on Formatting Text
Conditional Logic
Loops
Arrays

Programming Methodology

Choosing a Methodology
The Rational Unified Process
The Inception Phase
The Elaboration Phase
The Construction Phase
The Transition Phase

Use Cases and Software Development

Use Cases Revisited
Use Case Diagrams
Use Case Formats
Use Case Sections
The Supplementary Specification
When Are We Done?

Object Oriented Analysis

Identifying the Objects

Identifying the Associations

The Domain Model

The Happy Video Store Draft Domain Model

Object Oriented Design

Going from Analysis to Design

UML Class Notation

Generalization

Aggregations

The Final Class Diagram

The RUP and OOD

Creating Classes

Proper Coding

Using Classes

Creating Classes

Class Properties

Object Methods

Constructors

Destructors

Static Data

A complete Object example

Inheritance and Polymorphism

Inheritance

Polymorphism

Abstract Functions and Classes

Interfaces

Common Java Inheritance Examples

Working with Objects

Working with Reference Types

Collections

Exception Handling

File IO Operations

Serialization

Database Programming: ORM and More

Database Programming Overview

Connections

Making a Connection

Executing SQL Statements

Reading Data

Updating, Inserting and Deleting Data

Executing Multiple Batches

The PreparedStatement Interface

Using Transactions

Calling Stored Procedures: The Callable Statement Interface

Using JNDI

Creating JDBC Data Sources