

Object Oriented Programming in Java

Modality: Self-Paced Learning

Duration: 40 Hours

SATV Value:

CLC:

NATU:

SUBSCRIPTION: Learn, Master

About this course:

What skills did the recruitment manager seek in beginner level developers? As per the latest survey, one of the most demanded job-skills is strong object-oriented design. Still common CS (Computer science) programs hardly put attention in this area.

The Object-Oriented Programming in Java course reviews the task of objects in code, examines the ways to utilize them and looks at the method of designing them for ideal code structure and reuse. You will teach many practical coding experiences utilizing the famous Java objects, such as Lists and Arrays, which will benefit you to create own object's orders. Also, you will study interfaces, inheritance, abstract classes, and encapsulation methods to assist you to handle significant code bases.

This course provides you the skill and expertise that will help you to manage and design complicated relationships under a codebase.

Course Objective:

After completion of this program, students have skills to:

- Create own objects from the start by designing best practices
- Store complex data by using a single array and two dimensional arrays
- How to use Polymorphism
- Obtain benefit from interfaces, abstract classes, and inheritance
- Java list interface implementation

Duration of Course:

This training program is based on 40 hours

Audience:

- Programmer

Prerequisites:

- Candidates must have an understanding of the fundamentals of Java programming like data types and scope, returns, parameters, and methods.

Course Outline:

Module 1 | What is an Object

- Introduction
- Arrays
- 2D Arrays
- Array Lists
- Project - Battleship
- Assessment

Module 2 | Building Your Own Objects

- Introduction
- Meet Objects
- Anatomy of an Object
- Encapsulation
- What is Static
- Project - FracCalc
- Assessment

Module 3 | Object Inheritance

- Introduction
- What is Inheritance
- Super
- Polymorphism
- Abstract Classes
- Interfaces
- Project - Company Structure
- Assessment

Module 4 | Capsne Project

- Project Description