

# Core Java

## J2SE (Core Java)

CAC Noida is an ISO 9001:2015 certified training center with professional experience that dates back to 2005. The vision is to provide professional education merging corporate culture globally to the youth through technology resourcing and knowledge consulting with emerging technologies. Quality assurance parameters for each stage of training and development are ensured at all levels. The operating office is solely based Noida (U.P) India.

CAC Noida is the well-known Core Java training center in Noida with high tech infrastructure and friendly environment. We provide hands on practical knowledge and full job assistance with basic as well as advanced level

CAC Noida is one of the best Core Java training institute in Noida with 100% placement record. CAC Noida has well defined courses and modules with training sessions for developers. At CAC Noida, Core Java training is conducted by specialist Trainers having experience of more than 10+ years.

CAC Noida is well-equipped Core Java training center in Noida and we offer job oriented Core Java training program keeping an eye on industry requirements and future prospects. Each and every one who is part of “CAC Noida” is important to us. Every student has the freedom to discuss and learn. We always take care that right student choose right course.

Core Java is the one of high in demand course today and CAC Noida provides practical exposure to all the concepts, contents are well-structured to meet the industry requirements.

We are confident that Core Java training we deliver is at a fantastic standard and are constantly striving to improve and become even better. We believe that Core Java training should be well planned, well prepared, fit for purpose and delivered by trainers who are motivational and inspirational, trainers who can make learning interesting and will make a difference to your people and your organization.

### **SESSION 1: Introduction to JAVA**

- The beginning of java
- Java Language Features
- How Java Works

### **SESSION 2 : Setting Up Java Environment**

- Downloading and Installing JDK/JRE
- Setting Path and Class path
- Sample Java program

### **SESSION 3 : Java Language Elements**

- Identifiers, Literals, Keywords
- Primitive and Reference Variables

- Primitive Data types
- Type Conversion

#### **SESSION 4 : Operators and Control Flow**

- Operators Precedence and Associativity
- Control Statements
- if, if-else
- while, do-while, for Loops
- Break, Continue

#### **SESSION 5: Arrays-1**

- Array as an Object
- One dimensional Arrays
- Multidimensional Arrays

#### **SESSION 6 : OOPs Concepts**

- Constructors and Types, Methods
- Accessibility Modifiers
- Non-accessibility Modifiers

#### **SESSION 7 : Inheritance and Types**

- Abstract Classes vs Interfaces
- Up casting, Downcasting, this, super Keyword

#### **SESSION 8 : Polymorphism**

- Polymorphism and its Type
- Overriding Methods and Method Overloading
- Packages

#### **SESSION 9 : Exception Handling-1**

- Exception Handling
- Exceptions and Errors
- Exceptions Hierarchy
- Common Exception Types
- Identification of Exceptions Based On Scenarios
- try, catch and finally Blocks

- throw and throws Clause
- Checked and Unchecked Exceptions
- Defining Exceptions in Method Overriding
- User Defined Exceptions

#### **SESSION 10 : Multithreading**

- Multitasking vs Multithreading
- Thread Execution and Platform Dependency
- Creating Threads Using java.lang.Thread and java.lang.Runnable
- Thread Manipulation Using Common Methods
- sleep(), join(), yield()
- Synchronization and Implementation Types
- wait(), notify(), notifyAll()

#### **SESSION 11 : Wrapper Classes**

- java.lang.Object and Common Methods
- Wrapper Class Constructors
- Conversion Methods

#### **SESSION 12 : String Manipulation**

- String Features – Immutable, Interned Strings
- Common String Methods
- String vs String Buffer
- Important String Buffer Methods
- Overview of String Builder

#### **SESSION 13 : Collections Framework-1**

- Collections API
- Implementation Classes and Features
- Collections Creation and Traversal
- Iterators, List Iterators
- Maps and Implementation Classes
- Traversing Maps
- equals() and hash code() Contract

#### **SESSION 14 : Advanced I/O Streams**

- I/O Basics



- Byte Streams and implementation
- Characters Streams and Implementation
- Buffering of Streams, Print Writer
- Serialization and Implementation
- java.io.Serializable Implementation Rules

### **Contact Info.**

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