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Java SE7 Programmer Associate

Introduction

Java SE 7 Associate Programmer certification adds to the Student's qualification as a Java developer. Knowledge of Java is important, but knowing how to write an efficient and productive code adds to the skills and gives the user an edge when they are planning to get into a career path of Java. Through this course the student will gain in-depth understanding of Java by examining how objects are allocated in the heap. They will learn to use various Java programming language constructs to create several Java technology applications, decision and looping constructs and methods to dictate program flow. They will be able to perform basic error handling for Java technology programs and implement intermediate Java programming and object-oriented (OO) concepts.

Pedagogy

Online Course

Minimum Recommended Duration (90 hours)

40 hours of course work and assignments + 20 hours of guided practice + 30 hours of open practice

Difficulty

Beginner to Practitioner

Assessment

Online Assessment

Related SMU Subjects

BCA 4th Sem: Java Programming
MCA 4th Sem: Programming in Java
BScIT 4th Sem: OOP with Java

Certified By

MaGE

Who Should Attend

Graduates of IT/CS who want hands on knowledge of Java SE7, advanced concepts in application development and Objective Oriented Programming (OOP)
Working executives working on Java Platform

Topics Covered

- Application development in Java
- Java Basics
- Working With Java Data Types
- Using Operators and Decision Constructs
- Creating and Using Arrays
- Using Loop Constructs
- Object oriented concepts in Java
- Basic I/O
- Working with Methods and Encapsulation
- Working with Inheritance
- Handling Exceptions
- Thread

Learning Outcome

After the training, students will be able to:

- Use various Java programming language constructs to create several Java technology applications.
- Use decision and looping constructs and methods to dictate program flow.
- Perform basic error handling for your Java technology programs.
- Implement intermediate Java programming and object-oriented (OO) concepts in Java technology programs.
- Demonstrate knowledge of Java technology and the Java programming language.
- Understand basic object oriented concepts such as inheritance, encapsulation, and abstraction.
- Use and manipulate object references, and to write simple error handling constructs

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C/C++ Programmer Certificate

Specialization

Software Development

Major Recruitment Sector

IT, IT Enabled Services, KPOs

Avg. No. of opening in leading Job Portals

50000 Jobs for 0 to 3 years of experience

Large Employers

HP, IBM, TCS, Infosys, Wipro, Cognizant, HCL, TechM, MSAT

Avg. Salary / Annum

Rs. 1.2 – 1.5 Lac; Exp (1-3 Yrs): Rs.2.0 – 3.0 Lac; Exp (3 Yrs+): Rs. 3 Lac+

Placement Opportunity

Java is one of the most extensively used programming languages and most leading software / application development tools are aligned to Java. Usually the major development openings in IT firms demand basic or intermediate knowledge of Java. This program takes the students through various examples of multiple difficulty level and prepares them for the kind of practical questions that are asked during interviews. Hence this is a skill enhancement course and combined with an over-all degree program and in-depth knowledge of Java, it increases the student's placement chances and takes up salary component by 30%.

MaGE Online Model USP

	Face to Face Model	MaGE Online Model
Faculty	Instruction Led Training	Tech / Subject Matter Support Via eMail & Call
Content	Books	Online Reading Material, Downloadable PDFs
Assessment	Single Assessment	Multiple Quizzes for all Units, Self-Assessment coding with Instant Evaluation and Feedback
Practice Problems	Limited basic pre-defined problems	Multiple Practice Problems with varying levels of Difficulty
Practice Time & Scope	Limited Lab Timing and Software / Compilers required to practice at home	Unlimited Practice on the Open Lab with scope of Student coding creatively without any constraints. Cloud Platform Enables the student to Practice using just a Browser and Internet Connection

Comparison of Delivery Models

Face to Face Model	MaGE Online Model
70 – 75 hours	90 hours
✓ 40 hours of self-learning from Books ✓ 30 hours of instructor led training on doubt clarification of basic concept and lab session ✓ Additionally a student can book lab (depending on availability) to practice on his own, generally faculty assistance are not available ✓ Single assessment at the end	✓ 40 hours of self-learning in multiple modes - e-books, PPTs, videos ✓ Minimum 20 hours of guided practice and 30 hours of open practice ✓ Continuous self-assessment and final proctored assessment