

Take a Step
Towards Your **Dream JOB**



JOB ORIENTED DIPLOMA COURSES

(Software Development & Testing)

ONLINE & CLASSROOM

Why Join Profound

- Quality Training and focus on Campus Placement
- Certified & Industry Experienced Trainers
- Course Curriculum designed by Industry Experts
- 5,00,000+ Student Connects across India
- Daily Campus Drives & Mega Job Fairs
- 100% Job Assistance with 3100+ Clients

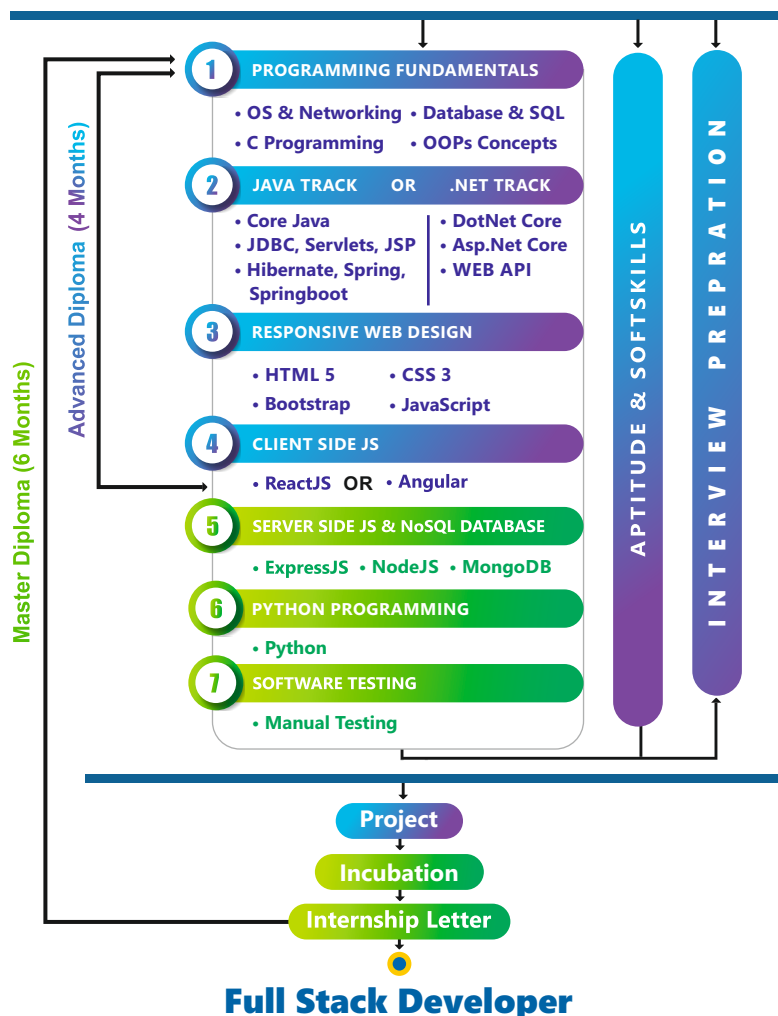
Courses Offered

- Full Stack Java Developer
- Full Stack .Net Developer
- Digital Marketing
- Software Testing
- Web Development
- MEAN/MERN
- Data Science
- Angular
- Salesforce
- Python
- ReactJs
- UI/UX

Job Oriented Development Courses

- **Master Diploma in Full Stack Developer** (Java & .NET Track)
Duration : 6-8 Months
- **Advanced Diploma in Full Stack Developer** (Java & .NET Track)
Duration : 4-6 Months

Overview of Development Courses



Overview of Development Courses

JAVA / .NET TRACK	Adv. Diploma (4 Months)	Master Diploma (6 Months)
O.S Concepts, Networking	✓	✓
Database Fundamentals & SQL	✓	✓
C Programming	✓	✓
OOPs Concepts	✓	✓
Core Java / DotNet Core	✓	✓
JDBC, Servlets, JSP / ASP.NET Core	✓	✓
Hibernate, Spring, Spring Boot / WEB API	✓	✓
HTML 5.0, CSS 3.0, Bootstrap, Javascript	✓	✓
ReactJS (Optional-Angular)	✓	✓
ExpressJS, NodeJS, MongoDB	✗	✓
Python Programing	✗	✓
Software Testing	✗	✓
Interview Preparation (Online Aptitude, Soft Skill, Mocks)	✓	✓
Project / Incubation	Project	Project + Incubation
6 Months Internship Letter	✗	✓

Syllabus of Development Courses

01. Programming Fundamentals

Introduction to OS & Networking

- Overview of Operating System
- Concept of Process
- Memory Management
- Network Basics
- Classification of Networks
- Network Topologies
- Network Communication and Protocols
- TCP/IP fundamentals

Database Fundamentals & SQL

- Introduction to Database
- Normalization
- Introduction to SQL statement
- Built-in functions
- Summarizing results using group functions
- Joins
- Retrieving Data with Sub-queries
- SET operators
- Manipulating data and transaction

- Managing other schema objects
- Managing objects with Data Dictionary Views
- Manipulating large DataSet
- Managing Data in Different Time Zones
- Introduction to PL/SQL

C Programming

- Introduction to Programming
- Data Types, Operators
- Compilation, Linking, Execution, Debugging
- Integrated Development Environment
- Console Input and Output
- Control Structures
- Functions
- Pointers
- Storage classes, Dynamic Memory allocation
- Arrays, Strings
- File IO
- Structures and Unions
- Command Line arguments
- Macros

OOPs Concepts

- What is OOP's
- Why we need OOP's
- What is Object?
- Object Characteristics
- Concept of Classes & Object Creation

02. Java Technologies

Core Java

- Introduction to Java
- Working with Java
- Basics of Java
- OOP's Features
- Inner Class
- Reflection
- Wrapper Classes
- Exception Handling
- Multithreading in Java
- I/O Programming & File Handling
- GUI Programming
- Collection Framework

Advanced Java

JDBC (Java Database Connectivity)

- Need of JDBC
- JDBC Driver & types
- JDBC architecture
- JDBC Transaction
- Advance JDBC
- What is Stored Procedure?
- JDBC using Stored Procedure
- Data Access Object Design Pattern
- JDBC application using Swing, DAO

Servlets

- Overview of HTML, CSS & XML
- Overview on JEE
- Servlet Basics
- Servlet API
- Session Tracking in Java
- Session Tracking mechanism
- ServletFilter API

JSP (Java Server Pages)

- Introduction to JSP
- JSP Tag
- Jsp implicit object
- JSP Specification
- Concept of MVC

Java Frameworks

Hibernate

- Introduction
 - Limitation with JDBC
 - What is ORM?
 - What is Hibernate?
 - Hibernate Architecture
- Hibernate Example
 - CRUD Operation Using Hibernate
 - Hibernate with Annotation
 - Hibernate Generator classes
 - Hibernate Mapping
 - Component Mapping
 - Inheritance Mapping
 - Collection Mapping
- HQL & Criteria
- Caching in Hibernate

Spring

- Introduction
 - What is Spring?
 - Spring Features
 - Spring Modules
- Dependency Injection
- IoC container
- What is Bean?
- Spring Core
- Spring DAO
- Spring MVC
- Spring AOP

Spring Boot

- Introduction to Spring Boot
- Dependency management using POM.xml
- CommandLineRunner
- Introduction to ORM with JPA
- Spring MVC with Spring Boot
- REST with Spring MVC
- Spring Boot Security
- Microservices

02. Dot Net Technologies

.NET Core

- NET Applications & Tools
- .Net Standards
- Core C#
- OOPs Major Pillars
- Language Basics
- Classes, Records, Structs & Tuples
- Exception Handling
- Events, Delegates & Lambdas
- Collections
- Language Integrated Query
- File IO and Serialization
- Reflection, Metadata
- Dependency Injection
- Managed and Unmanaged Memory
- Threading and Tasks and Asynchronous Programming
- Entity Framework Core

ASP.NET CORE

- Understanding Web Technologies
- Introduction of ASP.Net Core
- Understanding ASP .Net Core Project Structure
- Understanding Static Files
- Writing Custom Middleware
- State Management
- Working with Razor Pages and Rzor Component
- HTML Helper classes
- MVC in ASP.Net Core
- Data Handling in .Net Core using LINQ
- Data Handling in .Net Core using EF Core
- Security
- Call WEB API
- Globalization & Localization
- Unit Testing
- Deployment

WEB API

- Introduction & Architecture
- Methods in API – Postman
- Working with Data and ODATA
- CRUD operations in API
- Routing & Configuring

03. Responsive Web Design

HTML 5

- HTML Basics: Structure, Elements and Attributes
- Various Input fields in html
- Tables, Frames, Lists, Layouts
- Fonts, Colors
- Images
- HTML Forms

CSS 3

- Styling with CSS
- Selectors and style definitions
- Properties of CSS
- Linking HTML & CSS
- Limitations of normal selectors
- Types of selectors
- CSS Properties
- CSS pseudo elements
- CSS Animation

Bootstrap

- Introduction to Bootstrap
- Bootstrap Grid
- Bootstrap Components
 - What is Bootstrap Components
 - Glyphicons Component
 - Dropdown Menu Component
 - Button Groups and Button Toolbar
 - Navigation Pills & Tabs Components
- Navbar Component & Responsive Navbar
 - Forms
 - Pagination Component
- Labels / Badge Components
 - Jumbotron
 - Alerts & Dismissible Alerts
 - Progress Bar
 - Media Objects Component
 - List Group Component
 - Panel Component
- Bootstrap Plug-Ins

JavaScript

- Java Script Language basics
- Variables, Data Types, Functions, Operators
- Control flow using conditional and Iterative statements
- Managing HTML DOM and Events
- OOPs in Java Script

04. Client Side JS

TypeScript

- Typescript as Programming Language for Angular
- Trans compilation, Debugging TypeScript code
- Classes & Interfaces
- Control Structures
- Functions & types
- Decorators
- Rest & Spread Operators

ReactJS

- What is React?
- React Features
- Component Based Architecture
- Life Cycle of a Components
- State & Props in React
- Working with JSX
- Using bootstrap in React App
- React Hooks
- React Forms, Formik
- Routing in React
- JSON with React
- React CRUD operations
- Testing

Angular

- What is Angular?
- Introduction to Components
- Templates, Interpolation, and Directives
- Data Binding and Pipes
- Services and Dependency Injection
- Retrieving Data Using HTTP
- Navigation and Routing Basics
- Modules
- Angular Forms
- Angular Testing

05. Server Side JS

ExpressJS & NodeJS

- Intro to Node.js
- NodeJS Basics & Global objects
- Node Modules
- File System
- Express Framework
- RESTful APIs
- How Node.js connects to databases
- Connecting to MongoDB databases
- Performing CRUD operations using Node.js

MongoDB

- Introduction to MongoDB
- Mongo Shell
- CRUD using Mongo shell
- Index
- Aggregation

06. Python Programming

- Python Installation & working
- Data Types
- Python Program Control Structures
- Programming using String, List, Set, Tuple & Dictionary
- Functions, Modules & Packages
- Object Oriented Programming
 - Concept of class, object & instances
 - Constructor, class attributes & destructors
 - Inheritance, Overriding & Overloading operators
 - Polymorphism

07. Software Testing

Manual Testing

- Introduction to Software Applications
- Software Development Life Cycle
- Introduction to Software Testing
- Software Testing Life Cycle
- Testing Methodologies
- Test Design
- Test Execution
- Defect Management
- Types of Non Functional Tests
- Quality
- Skills for a Professional Tester

08. Campus Preparation

Soft Skills

- Personality Development
 - Communication Skills
 - Body Language
 - Presentation Skills
 - Leadership Skills
- Group Discussions-Techniques Dos, Dents
- Interviews- Techniques, Dos, Dents, FAQs
- Resume Writing

Aptitude

Quantitative Aptitude

- Numbers (HCF & LCM)
- Interests and Partnerships
- Ratio & Proportion
- Mixtures & Allegations
- Profit & Loss
- Time, Speed & Distance
- Time & Work
- Mensuration
- Permutations & Combinations
- Average & Percentages

Reasoning

- Logical Reasoning
- Probability
- Coding-Decoding, Series
- Directions
- Blood Relations
- Clocks & Calenders

Verbal

- Analogy & Odd Man Out
- Antonyms & Synonyms
- Reading Comprehension
- One Word substitution & Idioms phrase

09. Interview Preparation

- Mock Test on MNC Pattern
- Coding Test
- Technical Interviews
- Group Discussion

10. Project / Incubation

- **For Diploma** - Design / Coding Project
- **For Advanced Diploma** - Design / Coding Project
- **For Master Diploma** - Project Incubation with Internship Letter

Note : Angular will be available on optional basis subject to availability of batches.

Job Oriented Testing Courses

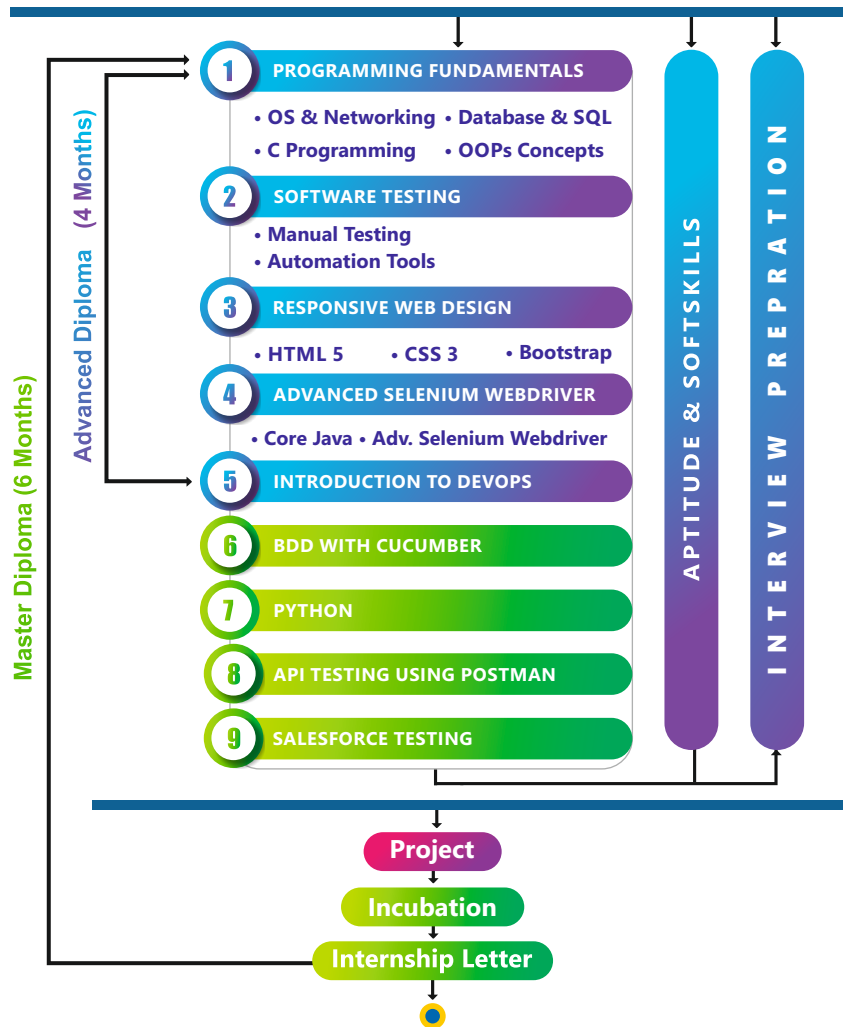
- **Master Diploma in Software Testing**

Duration : 6 Months

- **Advanced Diploma in Software Testing**

Duration : 4 Months

Overview of Testing Courses



Software Development Engineer in Test (SDET)

Syllabus of Testing Courses

01. Programming Fundamentals

Introduction to OS & Networking
Database Fundamentals & SQL
C Programming & OOPs Concepts
(Refer Page 2 for syllabus)

02. Software Testing

Manual Testing

Introduction to Software Applications
• What is Software Application

- Types of Software Applications
- Components of Software
- One / Two / Three / Multi Tier Architecture
- Application Domains, Models
- Software Development Life Cycle
 - Phases of SDLC in detail
 - Project Team Organization Structure
 - Test Team Roles & Responsibilities
 - Various Application Issues
 - Waterfall Model
 - Iterative Model
 - Spiral Model

- Agile Model
- Introduction to Software Testing
 - What is Software Testing ?
 - 'V' model in detail
 - Verification Techniques
 - Reviews, Inspections, Walkthrough
 - Validation
 - Levels of Testing
- Software Testing Life Cycle
 - Requirements Analysis
 - Test Planning, Test Design
 - Test Execution, Test Closure
 - Economics of Testing

Testing Methodologies

- Black Box Testing
- White Box Testing

Test Design

- Test Scenarios, Test Cases
- Requirement Traceability Matrix
- Test Case Management Tool
- Test Data & Creation Techniques
- Negative Testing
- Best Practices of Test Design

Test Execution

- Test Environment Setup
- Running Test Cases
- Logging Defects
- Retesting and Regression
- Challenges in Test Execution
- Test Closure Report

Defect Management

- What is a Defect?
- Defect Reporting
- Defect Severity & Levels
- Defect Priority & Levels
- Defect Life Cycle
- Defect Tracking Tools
- Defect Prevention

Types of Non Functional Tests

Quality

- Software Quality Factors
- Quality Management Systems (QMS)
- Quality Assurance (QA) & Quality Control (QC)
- Testing Metrics

Skills for a Professional Tester

Automation Tools

JIRA

- Introduction to Jira
- Use of Jira
- How to install Jira
- Scrum & Sprint Concept
- Structure of scrum team
- Process flow of scrum & sprint
- Scrum ceremonies
- Agile scrum activities in Jira
- Test Management Activities in Jira [Zephyr Squad Plugin installation]
- Defect Reporting & Reports Generation

Selenium IDE

- Recording a Selenium Test Case
- Running a Selenium Script
- Creating Test Suit
- Synchronization
- Assertions
- Verification commands
- Debugging
 - Start, Breakpoint, Step
- Overview of Automated testing
 - Automation Process
- Scope of Automation
 - Benefits of Automation
 - Selection of Automation Tool

Selenium as Automation Tool

- Why Selenium
 - Selenium
 - Components [IDE, RC, Webdriver, Grid]
- ### Selenium IDE Menu
- Toolbar, Editor, Panes

03. Responsive Web Design & Core Java

HTML 5 & CSS 3

Bootstrap

Core Java

(Refer Page 2 & 3 for syllabus)

04. Advanced Selenium Webdriver

Introduction - WebDriver

- Why WebDriver
- End to End Automation Process
- Integration - Eclipse + WebDriver
- Browser Handling for IE, Chrome, Firefox, HTMLUnit
- Object Identification for different web elements using
 - ID, Name, Class, LinkText, Tagname, XPath
- Customize Object repository
- Checkpoint- Data, Image
- Synchronization - Implicit, Explicit
- Performance - Page load time, Internal page navigation
- Mouse / Keyboard events handling
- Handling of Alerts and Pop Ups
- Handle Window handles
- TestNG
 - What is TestNG
 - Installing TestNG
 - TestNG Annotations
 - Running a test using TestNG
 - TestNG Report
 - Skipping & Prioritizing Tests
 - Parameterizing tests
- Frameworks
- Data driven Framework
- Page Object Model

05. Introduction to Devops

- What is DevOps ?
- Why DevOps is needed ?
- What is DevOps Transition ?
- DevOps Overview and its Components
 - Technical Challenges
 - Stages Of DevOps Lifecycle
- Introduction to DevOps tools

06. BDD with Cucumber

- TDD/Behavior driven development/ Business driven development)
- What is Cucumber ?
- Integrate Cucumber with eclipse
- Cucumber selenium java test-case
- Cucumber feature file
- JUnit test-runner class

- Gherkin keywords
- Step definitions
- Cucumber options
- Map in Data tables
- Data-driven testing using Cucumber
- Cucumber tags
- Cucumber hooks
- Tagged hooks in cucumber
- Execution order of hooks
- Integrate maven with cucumber

07. Python Programming

(Refer Page 4 for syllabus)

08. API Testing Using Postman

- What is an API?
- What is API Testing
- API Testing VS Unit Testing
- What is Web Service
- Difference between API and Web Service
- Types of Web Services – REST & SOAP
- API /Web service Testing challenges
- API Testing process
- RESTFUL Web Service
- Using POSTMAN

09. Salesforce Testing

- What is CRM?
- What is CRM Process?
- What is Salesforce?
- Salesforce Clouds
- Custom objects, fields & tabs
- Salesforce key terminologies
- Creation of Lead and Opportunity
- Creation of User profiles & permission set
- Creation Page Layouts, Reports & Dashboard
- Levels of Testing in Salesforce
- Validation Rules
- Creating Test Scenarios

10. Campus Preparation

(Refer Page 4 for syllabus)

11. Interview Preparation

(Refer Page 4 for syllabus)

12. Project / Incubation

- **For Advanced Diploma** - Testing Project
- **For Master Diploma** - Project Incubation with Internship Letter

Our Clients



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PUNE - DHANKAWADI

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