

Course Outline

- Introduction to Java and Eclipse
 - Installing the software
- Primitives
- Control Flow
- Introduction to Objects
- Inheritance
- Collections
- Error Handling
- GUIs and Swing
- Java Servlets, JSPs and Web Applications
- Functional Programming
- Documentation
- Packaging it all up
- Test Driven Development in Java

Course Objectives

- By the end of this course you should be able to:
 - Install and setup java and Eclipse IDE
 - Write programs and run them from both the command line and the IDE
 - Understand the basics of java programming
 - Creating objects and methods
 - Control flow within methods
 - Manipulating data
 - Access control
 - Write several programs starting from the very simple command line programs through to full GUI applications using JavaFX
 - Have a look at web applications using J2EE (Servlets and JSPs)
 - Have a look at functional programming in Java using Java 8
 - Packaging up Java files to use as executables, or deploying onto webservers
 - Test Driven Development in Java

Where Next?

- Books
 - Cay Horstman Big Java, Core Java for the Impatient
 - Kathy Siera and Bert Bates Head First Java
- Documentation and Tutorials Online
 - https://docs.oracle.com/javase/8/docs/api/index.html
 - http://docs.oracle.com/javase/tutorial/
 - http://www.coderanch.com/forums
 - A good place to ask beginner questions. Can be a bit friendlier than stack overflow when starting out
- Practice!
 - And practice some more, and some more

QA Courses

Test Driven Development in a Java Environment

- Introduction to test driven development in Java
- More detail about how to use JUnit and Mocking for tests

User Experience Fundamentals

- Putting the user at the centre of any human computer interaction
- Some of the details and theory behind interface design

Understanding the Java Spring Framework

- Looking in depth into the spring framework for Java
- Looks at databases and the Hibernate ORM

Java SE 8 Fundamentals/Programming

 Written by Oracle, covers basic through to more advanced concepts in Java

	QAJAVAECL v1.1
Evaluation	
Go to evaluation.qa.com	
Course Code: QAJAVAECL	
PIN:	