

- **Still looking for a job?**
- **Malaysian Diploma / Degree holder?**
- **Interested in a career in ICT industry?**

COURSE : BUILDING J2EE INTERMEDIATE

DURATION : 30 Days

Java 2, Enterprise Edition (J2EE) is a powerful platform for building web applications. The J2EE platform offers all the advantages of developing in Java plus a comprehensive suite of server-side technologies. This course teaches you what you need to know on how to design and build your own web applications. You will learn the details of the key J2EE technologies and how to leverage the strengths of each, with special focus on Servlets and JSPs. At the same time, you will be also be learning about the big picture of J2EE and how to design web applications that are robust, efficient, secure, and maintainable. If you want to deliver an application on the web, you will find this course essential.



COURSE OUTLINE

1. Writing JSP Pages
2. JSP 2.0
3. JSTL 1.1 • Lesson: JSTL Introduction and Core Library
4. Database Integration: JDBC and J2EE
5. Additional J2EE Components
6. J2EE and Web Application Security
7. Additional J2EE Topics
8. Appendices (Optional)



REQUIREMENT

1. Malaysian citizen
2. Fresh graduates who are unemployed
3. Diploma or degree graduates
4. CGPA \geq 2.5 - Candidates who have GCPA below 2.5 will be required to sit for the pre-qualifying test provided.
5. Field of studies should be relevant to course selected

COURSE CONTENT

Module 1 : Writing JSP Pages

Day 1

- Introduction to JSP
- What is J2EE
- Java Server Pages
- Servlets

Day 2

- Enterprise JavaBeans
- Benefit of Using J2EE

Day 3

- Implicit Objects
- 9 Implicit Object
- Session Management
- Exercise

Day 4

- Flow Control
- Logging And Exceptions
- Exercise

Day 5

- Input And Output Control
- Initialization Parameters
- Actions, JavaBeans, and Custom Tags
- Exercise

Module 2 : JSP 2.0

Day 6

- Introduction
- JSP Error Pages
- JSP Syntax Error Reporting

Day 7

- JSP Deployment Descriptor News
- Exercise

Day 8

- The Expression Language
- Why Another Language
- EL Syntax

Day 9

- Literal Expressions
- EL Variables

Day 10

- Controlling Variable Scope
- Defining Default Values
- Iterating Maps
- Exercise

Day 11

- Simple Tag Handlers
- First Step
- Exercise

Day 12

- Mapping Tags to classes
- Handling Tag Attributes
- Exercise

Day 13

- Processing Body Content
- Making The Right Choice
- Exercise

Module 3 : JSTL 1.1

Day 14

- JSTL Introduction and Core Library
- Installing JSTL
- The JSTL Tag Libraries

Day 15

- The EL Expression Language
- JSTL Example
- Exercise

Day 16

- JSTL Format Library
- Syntax
- Body Content
- Attributes

Day 17

- Constraints
- Null And Error Handling, Exercise

Day 18

- JSTL SQL Library
- Transaction
- Query
- Update
- Param
- Date Param
- Set Data Source
- Exercise

Day 19

- JSTL XML Library
- Tag Library Information
- Tag Summary

Module 4 : Database Integration: JDBC and J2EE

Day 20

- JDBC and Position in J2EE
- Connection In a Java Application
- Connection In a J2EE Running on OC4J
- Vanilla Oracle Connection
- Pooled Connection
- XA Connection
- Exercise

Day 21

- Java JDBC Data Access API

Day 22

- The DAO Pattern
- Problems
- Forces
- Solutions
- Structure
- Participants and Responsibilities
- Strategies
- Consequence
- Sample Code
- Implementing Factory For Data Access
- Objects Strategy
- Related Patterns
- Exercise

Module 5 : Additional J2EE Components

Day 23

- Working with EJBs
- Session Bean
- Working with Entity Beans
- Working with Message Driven Beans
- Exercise

Day 24

- Web Services in J2EE – WSEE
- Understand Web Services and the core technologies involved Design, develop, and deploy real-world J2EE

Module 6 : J2EE and Web Application Security

Day 25

- J2EE Security
- The Background
- The Technology
- Web Application Security Overview
- Handling Untrusted Data
- Exercise

Module 7 : Additional J2EE Topics

Day 26

- Transactions
- Other J2EE APIs
- Compression APIs
- Numerical analysis APIs Exercise

Day 27

- Real-time libraries
- Rendering libraries
- Windowing libraries

Day 28

- The J2EE Blueprints
- The New Early-Access Java Petstore 2.0
- The Java Blue Print Solutions Catalog
- Ajax Components Blue Print's

Module 8 : Appendices (Optional) / Exercise and Project presentation

Day 29

- Introduction to Custom Tags
- Developing Custom Tags

Day 30

- Individual Project Presentation, tips, dos and don'ts and certificate award