

ICT SKILLS TRAINING PROGRAM (Software Development)

SYLLABUS AND SCHEDULE (v 2.1)

Purpose: To equip candidates with the necessary fundamental knowledge in ICT to be effective in designing and developing systems in a multi user environment.

Duration: 3 Months (Full-Time)

Syllabus:

- Java Programming
- Operating Systems Concept And Programming
 - Multi Tasking
 - Time Sharing
 - Resource Management
 - ✓ Concurrency Control
 - ✓ Starvation
 - ✓ Race Conditions
 - ✓ Dead Lock
 - Program Execution
- Simple Data Structure
- Complex Data Structures, Queue, Stacks, List, Graph, Etc
- Program Design
 - Primitives And Building Blocks
 - Techniques In Designing Programs
- Transaction
- Programming Technique For A Multi User Environment
- Web Programming (JSP)
- Java Services (J2EE)
- Designing the J2EE
- Database Design
- Database Access
- Data And Variable Passing Over The Net
- Data And Variable Scope Of Access Over The Net
- Backup And Recovery
 - Roll Forward Recovery
 - Roll Backward Recovery
- Program Testing And Simulation
- Projects