

Team SYS-ED

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To:	David Shapiro <dshapiro@syped.com>
CC:	
Sent:	January 12, 2007
Subject:	COBOL Training

Dear,

Would like to seek your help to inform us whether Sysed could provide the following training (the Instructor and Material) for one of IBM Customer (ONSITE in Jakarta - Indonesia). Do you have any partner here? Appreciate your urgent response!

1. Advance MF Cobol Programming on Online and Batch using IMS, DB2, and VSAM data structure

The primary objective for this Cobol education is to train customer newbie programmers to become good MF Cobol Programmers.

The requirements are as follow:

1. Introduction to Basic Features of TSO/ISPF, JCL, z/OS.
2. How to create Batch Applications using Cobol.
3. How to create Online CICS Applications using Cobol.
4. How to create Cobol Applications using VSAM, DB2, and IMS file.
5. What is the best way to use VSAM file, both by Batch and Online.
6. What is the best way to use DB2 database, both by Batch and Online.
7. What is the best way to use IMS database, both by Batch and Online.
8. How to debug Batch and Online Applications.

2. SYLABUS

Phase 1:

1. Introduction to IBM Mainframe Development Environment
- ISPF/PDF, SPSF

2. Mainframe Computing Environment

Overview of :

File Access Methods (QSAM, VSAM KSDS, ESDS, RRDS and Alternate Indexes)

Submitting compilation jobs and program executions into JES2 (or JES3)

Job Control Language (JCL)

System Utilities - IEBxxxx, REPRO, SORT, etc.

3. Introduction to Lab Exercises

4. Batch Programming - A simple program to level set the skills of the attendees

5. Batch Programming - accessing VSAM and QSAM files

Phase 2:

1. Introduction to Databases : IMS/DB
 - DBDGEN/PSBGEN/Database Loading
2. Introduction to Database : DB2
3. Application Programming Interfaces (API) for IMS/DB and DB2
4. Batch Programming (Detailed)
 - COBOL (intermediate and advanced)
 - Batch APIs (application programming interfaces)
 - CBLTDLI
 - EXEC DLI
 - EXEC SQL
 - Dynamic versus Static COBOL 'CALL' statements
3. Understand criticality of Batch Processing to finish within 'Batch Window'
 - daily, weekly, monthly, quarterly, half-yearly, year-end, ad-hoc.
4. Best practises in Structure COBOL programming for efficiency and ease of understanding/maintenance

Additional Phases: (this should take mostly in computer labs)

1. Introduction to Online Programming using CICS and BMS Support
2. Application Programming Interfaces (API) for IMS/DB and DB2
 - COBOL (intermediate and advanced)
 - Online APIs (application programming interfaces)
 - CBLTDLI
 - EXEC DLI
 - EXEC SQL
 - EXEC CICS
 - Dynamic versus Static COBOL 'CALL' statements
3. Pseudo-conversational versus conversational CICS programming
4. CICS resource definitions : Transactions, Programs/BMS Mapsets, Files, Database XA connection, CICS Queing Facilities (TD/TS)
4. Best practises in CICS/COBOL programming for efficiency and ease of understanding/maintenance
5. Performance monitoring and debugging tools
6. If we have the time,
 - interfacing with java/websphere/mq
 - cics transaction gateway, mq series interfacing

Please help to advise the quotation and the availability of instructor.. please let me know if you have any question or need further info.

Thanks in advance.

Dewi Astri R. Wijoseno