

COURSE PROFILE: A BASIC UNDERSTANDING OF COBOL PROGRAMMING

Title	A Basic Understanding of COBOL Programming
Length	5 days
Description	<p>This course covers:</p> <ul style="list-style-type: none">• the basic concepts of COBOL program design and coding techniques,• the basics of the COBOL programming language, and• how IT staff members can use this knowledge to develop more effective system specifications and to better test and validate systems. <p>The training techniques for this course include lectures and individual/group exercises.</p>
Target Audience	This course targets IT staff members (such as systems analysts, managers, and other non-programming positions) who are involved in writing systems requirements and validating systems.
Prerequisites	Information Technology Basics
Learning Objectives	<p>The student will be able to:</p> <ul style="list-style-type: none">• describe structured programming techniques and how they relate to structured analysis and design,• describe how information is organized in a COBOL program (the four COBOL program divisions),• describe where to look for COBOL program information such as the program ID, program description, and maintenance history,• define data in a program,• specify and validate data requirements,• describe and interpret the basic COBOL procedure constructs, statements, and syntax,• use the basic COBOL constructs and statements to write more precise specifications and conduct more effective validations,• describe program interfaces, and• describe the differences between the online and batch environments.
Course Material	<p>Each Student will receive the following materials.</p> <ul style="list-style-type: none">• COBOL; A Basic Understanding Training Manual• A college level textbook
Cost	<p>Our all inclusive local onsite fee for up to 15 students is \$12,650.00</p> <p>*Effective Date: 01/01/2008. This price does not include travel outside the Baltimore, MD or District of Columbia area. This does not include any offsite facility charge.</p>

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Course Content

Introduction

- The analyst's role
- Experiences with COBOL; a basic understanding course
- Overview of course techniques
- Introduction to structure charts, program flow charts and COBOL code
- Notations the course uses to describe COBOL statement syntax

COBOL Program Structure

- COBOL divisions
- Identification division
- Environment division
- Data division
- Procedure division
- Exercise: COBOL program structure

COBOL Coding Conventions

- Good business practices
- Coding rules

Overview: Data

- Types of data/storage areas
- FD statement
- Record description
- Field descriptions
- Exercise: identifying the parts of a record
- Picture (PIC) clause
- Exercise: writing a record description
- Exercise: interpreting a record description

Procedure Division Statements

- Modular programming
- Initialize statement
- Example: initialize statement
- Move statement
- Exercise: move statement

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Course Content, continued

Decision Constructs

- IF configurations
- Types of IF conditions
- Level 88
- Nested IF construct
- Flow charting
- Evaluate statement
- Exercises

Arithmetic Operations

- Add/to statement
- Add/giving statement
- Subtract/from statement
- Subtract/giving statement
- Multiply/by statement
- Multiply/by/giving statement
- Divide/into statement
- Divide/into/giving statement
- Divide/into/giving/remainder statement
- Divide/by/giving
- Divide/by/giving/remainder statement

- Compute statement

- Rounding option
- On size error
- Negative numbers and signed fields

- Exercises

Array/Table And Subscripting

- Table with Arguments Function
- Indexed By Statement
- Perform Statement with Subscripting

Basic File Input /Output

- Open statement
- Close statement
- Read/Write statement
- Read/into statement

Stop Run Statement

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Course Content, continued

Basic Screen Input/Output

- Edited PIC clauses
- De-editing
- PIC statement clauses
- Redefine clauses
- Display statement
- Accept statement

Program Management

- Copy statement
- Call statement
- Nested Programs

Sorting And Merging

- Sort statement
- Merge statement

On-Line Processing

On-line verses batch processing

Customer Information Control System (CICS)-Overview

- CICS commands
- Terminal control commands
- Program control commands
- File control commands
- Program storage commands
- Temporary storage commands

JCL Overview

- Identifying the Job to the System
- Program Execution