

COURSE PROFILE: A BASIC UNDERSTANDING OF COBOL PROGRAMMING

Title	A Basic Understanding of COBOL Programming
Length	4 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	Recommended: 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: 01/01/2010. This price does not include travel outside the Baltimore, MD or District of Columbia area.</p>

COURSE PROFILE: A BASIC UNDERSTANDING OF COBOL PROGRAMMING

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 Programsorting 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