SpiralTrain
developer courses

Cobol Programming

Audience course Cobol Programming
The course Cobol Programming is intended for anyone who wants to learn programming in the Cobol programming language.

Prerequisites Course Cobol Programming
To participate in this course basic knowledge of programming in another programming language is beneficial to understanding but is not required.

Realization Training Cobol Programming
The theory is discussed on the basis of presentation slides. The theory is further explained through demos. After discussing a module, there is the possibility to practice. Course times are from 9.30 to 16.30.

Certification Course Cobol Programming
After successful completion of the course the participants receive an official certificate Cobol Programming.

Duration: 3 days   **Price: € 1999**

Open Schedule

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Content Course Cobol Programming

In the course Cobol Programming participants learn to develop applications in the Common Business Oriented Language (COBOL). Cobol emerged from the Conference on Data Systems Language (CODASYL) in 1959, when more and more companies in the Western World needed to automate business processes. Cobol is still widely used in banks and insurance companies, but has undergone many changes since its early days. Since the COBOL 2002 standard, Cobol also supports object-oriented programming.

Cobol Intro
The course starts with an overview of Cobol's typical features and program structure. The Cobol Metalanguage, Divisions, Sections, Paragraphs, Sentences and Statements are discussed.

Data Declarations and Procedure Divisions
Subsequently the use of Data Declarations and Procedure Divisions is treated. Attention is paid to literals, constants, variables, structured data and assignment. And also input and output and various verbs are discussed such as ACCEPT, DISPLAY, COMPUTE, ADD, SUBTRACT, MULTIPLY and DIVIDE.

Control Flow
Furthermore control flow constructions in Cobol with selections and iterations are part of the course program. This includes condition types, truth tables, decision tables, the EVALUATE Metalanguage and also PERFORM..THRU, PERFORM..TIMES and PERFORM..VARYING.

Subroutines
After a discussion of subroutines in Cobol, it is the turn of a treatment of reading and writing sequential files.

Records
Attention is paid to Records, Fields, Record Buffers, Variable-Length Records and the operations SELECT, ASSIGN, OPEN, CLOSE, READ and WRITE.

Arrays and Strings
Finally the use of tabular data, arrays and strings in Cobol is explained and the course ends with the treatment of object oriented programming in Cobol with modules and classes.

Modules Course Cobol Programming

Module 1 : Cobol Intro	Module 2 : Data Declaration	Module 3 : Procedure Division
Cobol Origins	Alphanumeric Literals	Input and Output
Versions of Cobol	Numeric Literals	ACCEPT Verb
Cobol Idiosyncrasies	Figurative Constants	DISPLAY Verb
Noise Words	Data Items or Variables	System Variables
Cobol Metalanguage	Type Enforcement	Common Arithmetic
Program Structure	Alphabetic Data	ROUNDED Phrase
Divisions and Sections	Declaring Data	ON SIZE ERROR
Paragraphs and Sentences	PICTURE Clause	COMPUTE Verb
Statements	Assignments	ADD Verb
Coding Rules	MOVE Verb	SUBTRACT Verb
Micro Focus Cobol	Structured Data	MULTIPLY Verb
Installing Cobol	Data Hierarchy	DIVIDE Verb
Module 4 : Selection	**Module 5 : Iteration**	**Module 6 : Sequential Files**
IF Statement	Open Subroutines	Records and Fields
Condition Types	Closed Subroutines	Processing Files
Relation and Class	PERFORM NamedBlock	Implications of Buffers
Sign and Complex	PERFORM..THRU Dangers	Creating Records
Truth Tables	PERFORM..TIMES	Record Buffers
Implied Subjects	Inline Execution	SELECT and ASSIGN
Nested IF's	Out-of-Line Execution	OPEN and CLOSE
END-IF vs. Period	PERFORM..UNTIL	READ and WRITE
SET Verb Metalanguage	UNTIL Condition	Multiple Records
Decision Tables	PERFORM..VARYING	Type Code
EVALUATE Metalanguage	WITH TEST	Variable-Length Records
Module 7 : Tabular Data	**Module 8 : String Manipulation**	**Module 9 : Classes and Objects**
Tables vs. Arrays	INSPECT Verb	Module Strength
Declaring Tables	INSPECT .. TALLYING	Module Coupling
OCCURS Clause Rules	Modifying Phrases	Dictionary Class
Subscript Rules	INSPECT .. REPLACING	Cobol Classes
Multidimensional Tables	INSPECT .. CONVERTING	Objects and Methods
Prefilled Tables	String Concatenation	Registering Classes
SEARCH and SEARCH ALL	STRING Verb	Object References
INDEXED BY Clause	String Splitting	Destroying Objects
Using SET	Data-Movement Termination	Object Identifiers
KEY IS Clause	UNSTRING Termination	SUPER and SELF
Binary Search	Reference Modification	Scope Issues