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# Advanced Assembler Language Coding Workshop

## Duration: 4 Days    Course Code: ES35G

## Overview:

This course provides instruction and practice in the use of the more complex S/390 Assembler Language facilities for the experienced assembler language programmer. The course includes a discussion of standard linkage conventions, use of BSAM/QSAM and selected system macros, the macro definition language, and reentrant coding considerations.
Emphasis is placed on enhancing skills in problem resolution through analysis of more complex system-provided dumps.

## Target Audience:

This advanced course is designed for application programmers and beginning system programmers who code, maintain, and debug application support programs or subroutines written in S/390 assembler language.

## Objectives:

- Identify data management considerations and access methods

- Code assembler language programs which:

- Conform to standard linkage conventions using save area chaining

- Define and use BSAM/QSAM datasets through standard I/O macros

- Define and execute user macros which contain:

- Positional and/or keyword parameters

- Fixed or variable entry parameter lists

- Conditional assembly logic

- Use variable length storage operations (that is, EX, MVCL, and so on)

- Employ more complex instructions (that is, TR, TRT, BXLE, and so on)

- Access JCL parameter data

- Employ LE date/time handling services

- Identify reentrant coding considerations and dynamic storage acquisition

## Prerequisites:

Prior to attending this course, you should be able to code and debug simple S/390 assembler language programs.

## Content:

### Day 1

- (00:15) Welcome
- (01:00) Unit 1: Review
- (00:15) Unit 2: Assembler instructions
- (01:45) Unit 3: Linkage
- (01:30) Unit 4: LE date/time handling
- (02:30) Exercise 1: PARM handling and search

### Day 2

- (00:15) Lab review
- (03:00) Unit 5: Access methods: BSAM/QSAM
- (03:00) Exercise 2: File handling

### Day 3

- (00:15) Lab review
- (00:30) Unit 6: Assembler compile-time options
- (00:30) Unit 7: SNAP dumps
- (03:30) Unit 8: Macros and the Conditional Assembly Language
- (02:30) Exercise 3: Macro modification

### Day 4

- (00:25) Lab review
- (01:15) Unit 9: Miscellaneous instructions
- (00:25) Unit 10: Floating point data
- (00:25) Unit 11: Reentrant coding
- (00:15) Class wrap-up

## Further Information:

For More information, or to book your course, please call us on  030 - 60 89 444

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