Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Advanced Assembler Language Coding Workshop

CODE:	LENGTH:	PRICE:
ES35G	32 Hours (4 days)	£2,600.00

Description

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.

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

Audience

This 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.

Prerequisites

You should be able to:

- Code and debug simple S/390 assembler language programs

Programme

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

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.