

## Advanced Assembler Language Coding Workshop

**Duration: 4 Days**    **Course Code: ES35G**    **Delivery Method: Virtual Learning**

### 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.

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### 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:

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| ■ After this course participants should be able to:                | ■ Fixed or variable entry parameter lists                                  |
| ■ Identify data management considerations and access methods       | ■ Conditional assembly logic   |
| ■ Code assembler language programs which:                          | ■ Use variable length storage operations (that is, EX, MVCL, and so on)    |
| ■ Conform to standard linkage conventions using save area chaining | ■ Employ more complex instructions (that is, TR, TRT, BXLE, and so on)     |
| ■ Define and use BSAM/QSAM datasets through standard I/O macros    | ■ Access JCL parameter data  |
| ■ Define and execute user macros which contain:                    | ■ Employ LE date/time handling services                                    |
| ■ Positional and/or keyword parameters                             | ■ 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

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## Additional Information:

Official course book provided to participants

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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