

## 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:

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| <ul style="list-style-type: none"> <li>■ <b>After this course participants should be able to:</b></li> <li>■ Identify data management considerations and access methods</li> <li>■ Code assembler language programs which:</li> <li>■ Conform to standard linkage conventions using save area chaining</li> <li>■ Define and use BSAM/QSAM datasets through standard I/O macros</li> <li>■ Define and execute user macros which contain:</li> <li>■ Positional and/or keyword parameters</li> </ul> | <ul style="list-style-type: none"> <li>■ Fixed or variable entry parameter lists</li> <li>■ Conditional assembly logic</li> <li>■ Use variable length storage operations (that is, EX, MVCL, and so on)</li> <li>■ Employ more complex instructions (that is, TR, TRT, BXLE, and so on)</li> <li>■ Access JCL parameter data</li> <li>■ Employ LE date/time handling services</li> <li>■ Identify reentrant coding considerations and dynamic storage acquisition</li> </ul> |
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### Prerequisites:

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

### Testing and Certification

None

### Follow-on-Courses:

None

## 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 00 966 92000 9278

[training@globalknowledge.com.sa](mailto:training@globalknowledge.com.sa)

[www.globalknowledge.com/en-sa/](http://www.globalknowledge.com/en-sa/)

Global Knowledge - KSA, 393 Al-Uroubah Road, Al Worood, Riyadh 3140, Saudi Arabia