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## Advanced Assembler Language Coding Workshop

**Duration: 5 Days**    **Course Code: ES35G**    **Delivery Method: Company Event**

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### 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.

### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### 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.

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### 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
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### Prerequisites:

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

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## 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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## Further Information:

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

[info@globalknowledge.co.uk](mailto:info@globalknowledge.co.uk)

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

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK