



Assembler Language Coding Workshop

Varighed: 5 Days Kursus Kode: ES34G

Beskrivelse:

This classroom hands-on lab course provides an introduction to the mainframe Assembler language. The course is designed to develop the skills appropriate to write and/or maintain programs and routines written in S/370 or S/390 Assembler Language. Emphasis is placed on enhancing skills in problem resolution through program check interruption analysis and dump reading.

Målgruppe:

This course is designed for application programmers and/or beginning system programmers who code, maintain and/or debug application support programs or subroutines written in S/370 or S/390 Assembler Language.

Agenda:

- Recognize architectural features, such as instruction formats, data representation, storage addressing, and so on, which are significant to program analysis
- Identify point of program interruption, using the formatted system dump and elements of information such as the Program Status Word (PSW), the Instruction Length Code (ILC), the program's base register(s), and so on
- Identify appropriate standards for assembler programs in terms of program organization, register conventions, coding practices, documentation, and so on
- Code and debug assembler language programs which:
- Conform to standard linkage conventions using save area chaining
- Define and use various types of data definitions, including fixed point binary, character, hexadecimal, and packed decimal

Forudsætninger:

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- .
 - Employ standard macros such as CALL, SAVE, RETURN

 - Use various Assembler Language statements such as CSECT, EQU, COPY, END

 - Use both symbolic and explicit notational forms for instructions

 - Use data literals appropriately, and explain the use of LTORG to direct positioning of the literal pool

 - Create and use appropriate patterns for EDIT instructions

Indhold:

Day 1

Welcome

- Unit 1 Numbering systems
- Unit 2 Mainframe architecture
- Unit 3 Assembler syntax
- Overview of instructions: LA, LR, LTR, MVC, DS, DC
- Exercise 1 80/80 listing
- Exercise 1A 80/80 listing
- Unit 4 Data definition statements
- Unit 5 Fixed-point binary instructions
- Exercise 2 Binary data
- Unit 6 Addressing, comparing, and branching
- Unit 7 Data movement instructions
- Exercise 3 Text handling
- Unit 8 Assembler pseudo instructions
- Unit 9 Reading dumps
- Unit 10 Packed decimal processing
- Exercise 4 Packed data/editing
- Unit 11 Miscellaneous instructions
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 Unit 6 - Addressing, comparing, and branching

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Unit 2 - Mainframe architecture

Unit 3 - Assembler syntax

Exercise 1 - 80/80 listing

Exercise 2 - Binary data

Exercise 3 - Text handling

Unit 9 - Reading dumps

Course wrap-up

MVC, DS, DC

branching

Exercise 1A - 80/80 listing

MVC, DS, DC

branching

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Exercise 4 - Packed data/editing

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MVC. DS. DC

branching

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Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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