RX1015 - REXX Programming & Advanced REXX Programming

Course ID#: 0370-379-OS-W

Hours: 35

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Course Content

Course Description:

This course will introduce students to the skills necessary to code REXX execs in z/OS environments. A series of written and lab exercises will be used to reinforce the classroom education.

Prerequisites:

• Introduction to z/OS, or equivalent experience.
• TSO/IPF, or equivalent experience.
• Previous experience in designing and coding application programs will enhance the results of this course.

Audience:

Programmer, technical support personnel, and other individuals that need to write REXX execs.

Topics:

The REXX Programming & Advanced REXX Programming course will cover the topics listed below.

Module 1: Introduction to REXX
• Definition
• Dataset Organization
• Methods Execution

Module 2: REXX Language Syntax
• General Statement Syntax
• Variables
• Assignment Statement
• Accessing the Terminal
  • SAY Statement
  • PULL Statement
  • ARG Statement
• IF THEN ELSE Statement
• SELECT WHEN Sequence
• Iterative DO Sequence
• DO WHILE END Sequence
• DO UNTIL Sequence
• DO FOREVER Sequence

• LEAVE Statement
• ITERATE Statement
• SIGNAL Statement
• EXIT Statement

Module 3: REXX Built-in Functions
• Information Functions
• Character Functions
• Word Functions
• Data Functions

Module 4: Debugging REXX Execs
• TRACE Statement
• Interactive Tracing
• Condition Traps

Module 5: User Defined Subroutines and Functions
• Defining and Using Subroutines
• Defining and Using Functions

- Internal versus External Functions

Module 6: TSO/E Processing in REXX
- Using TSO Commands
- TSO/E External Functions
  - SYSVAR()
  - MVSVA()
  - MSG()
  - PROMPT()
  - SYSDSN()
  - LISTDSI ()
  - OUTTAP()

Module 7: Using ISPF Services in REXX
- BROWSE/VIEW Services
- EDIT Services
- LIBDEF Service
- DISPLAY Service
- SETMSG Service
- ADDRESS Statement
- SUBCOM Command

Module 8: Parsing Data
- PARSE Statement
- List Parsing
- String Pattern Parsing
- Positional Pattern Parsing

Module 9: File I/O
- Executing Programs in Execs
  - ALLOC Command
  - CALL Command
  - FREE Command
- EXECIO Statement

Module 10: Data Stack Processing
- Definition

- REXX Statements to Manipulate the Stack
- Uses of the Stack in REXX Execs
- TSO Commands That Use the Stack

Module 11: ISPF Edit Macros
• Overview
• Edit Macro Commands
• Using Edit Primary Commands
• Using Edit Line Commands
• Using Edit Macro Keyphrases
• Using Key Labels

Module 12: Batch REXX Execution
• Executing REXX Execs in TSO Background Jobs
• Executing REXX Execs in Batch Jobs

Module 13: Supplemental Topics (as time permits)
• REXX Language Support in DB2
• REXX Support for MVS Operator Commands
• Compiling REXX Execs