... to Your Success!"

# z/OS Debug Tool for XL C/C++

# **Course Summary**

#### Description

The student will acquire facility with the C/C++ compiler in support of using Debug Tool, and will acquire facility with Debug Tool.

## **Objectives**

After taking this course, students will be able to:

- Understand and discuss the capabilities of the Debug Tool
- Utilize the features of the Debug Tool to debug a C or C++ program, using the commands available in the full screen mode of the Debug Tool.

# **Topics**

- Compiling for Debug Tool testing
- Debug Tool Full Screen usage
- Debug Tool commands
- Debugging techniques

## **Audience**

This course is designed for experienced C or C++ programmers who are testing C or C++ application programs using Debug Tool.

### **Prerequisites**

The student entering this course should have experience in coding C or C++ programs, as well as experience in using ISPF/PDF, and should be able to code JCL to run simple batch jobs.

#### **Duration**

Two days

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# z/OS Debug Tool for XL C/C++

# **Course Outline**

# I. Introduction to the Debug Tool

- A. Compiling and linking
- B. Allocation
- C. Invocation
- D. Computer Exercise: Setting up to use the Debug Tool

#### II. The Session Panel

- A. Basic commands
- B. AT / CLEAR
- C. GO/GOTO/RUNTO/STEP
- D. LIST
- E. QUIT / QQUIT
- F. 3
- G. Computer Exercise: Introducing the Debug Tool

## III. Managing the screen

- A. SCROLL
- B. PANEL
- C. Session colors
- D. Session layout
- E. Source listings
- F. Session profile control
- G. WINDOW
- H. Function keys
- I. RETRIEVE
- J. FIND
- K. Advanced breakpoints
- L. Command lists
- M. ENABLE / DISABLE
- N. TRIGGER
- O. Changing variables MOVE, SET, and Compute
- P. Tracking variables MONITOR
- Q. Computer Exercise: Tailoring the Screen and Using Advanced Breakpoints

# IV. C/C++ language subset commands

- A. block {}
- B. break
- C. Declaration
- D. do/while
- E. expressions
- F. for/while
- G. if
- H. switch
- I. Debug Tool variables, expressions, and built-in functions
- J. Computer Exercise: Working with the language subsets

#### V. Session control commands

- A. SET
- B. QUERY
- C. Prefix commands
- D. AT/CLEAR
- E. DISABLE / ENABLE
- F. QUERY
- G. SHOW
- H. Frequency counts
- Computer Exercise: Using Advanced Features

### VI. Debug Tool Logs and Restart

- A. Miscellaneous Commands
- B. COMMENT
- C. ANALYZE
- D. DESCRIBE
- E. TSO / SYSTEM
- F. Computer Exercise: Restart and Miscellaneous Commands

## VII. Debug Tool in other environments

#### VIII. Miscellaneous Issues