Hewlett Packard Enterprise

HPE NonStop Development Environment for Eclipse HG754S

HPE course number	HG754S
Course length	2 days
Delivery mode	ILT, VILT
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- IDC MarketScape leader 5 years running for IT education and training*

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This course prepares you to use the HPE NonStop Development Environment for Eclipse (NSDEE) to develop, build, and deploy applications for the Integrity NonStop and Integrity NonStop BladeSystem. Topics include installation of Eclipse, NSDEE and prerequisite products, use of the supplied skeleton programs, accessing SQL/ MP and SQL/MX databases, inclusion of existing code, and using the Eclipse debugger. Languages covered are C/C++, COBOL, pTAL, and Java. This course is 60 percent lecture and 40 percent hands-on labs using HPE servers.

Audience

- Application developers
- System analysts
- Technical support personnel

Prerequisites

This course requires completion of one of the following prerequisites:

- Concepts and Facilities for NonStop Systems (U4147S)

- At least six months development experience on NonStop servers, including some SQL experience

Course objectives

At the conclusion of this course you should be able to:

- Install Eclipse, NSDEE, and prerequisite products

- Use NSDEE to generate, edit, compile, and deploy applications

- Change NSDEE configuration options and project properties

- Debug applications using the Eclipse debugger

- Convert existing ETK projects to NSDEE

Benefits to you

- Learn how to install and use HPE NonStop Development Environment for Eclipse (NSDEE) to create applications in an open environment

- Gain valuable hands-on experience using Eclipse and NSDEE

Next steps:

- Consider attending the advanced learning courses in the HPE NonStop Application Development curricula

Detailed course outline

Module 1: Course Overview	• Course overview and schedule	• Lab introduction
Module 2: Introduction to NSDEE	• Eclipse background and key features of NSDEE • Benefits of using Eclipse with NSDEE	• Project types
Module 3: Installation	• Installation requirements and steps • Cygwin or Msys installation • Cross compiler installation • Eclipse, CDT and NSDEE installation	• Starting Eclipse • The NonStop development perspective • Lab: Installing Eclipse, CDT and NSDEE
Module 4: Basic Operations	• Creating a project • Getting help • Editing, building, and deploying a project	• Defining network connections • Launching an application from Eclipse • Lab: Create and deploy a simple application
Module 5: Additional Operations	• Using existing source files • Creating new build configurations • Changing compiler and linker properties • Using the included tools • Accessing Guardian procedures • Using DEFINES with COBOL libraries	• Eclipse local history feature • Backing up and restoring projects and files • Remote file editing • Lab: Create and deploy an application using existing source files
Module 6: NSDEE Debugging	• Creating debug configurations • Controlling execution • Displaying and changing data variables • Watch expressions	• Accessing Native Inspect commands • Analyzing snapshot/saveabend files • Debugging a running process • Lab: Use the Eclipse debugger to debug applications in different languages
Module 7: Using SQL	• Installing and accessing ODBC/MX • SQL/MX preprocessors • Creating projects with SQL/MX or SQL/MP • Removing incorrect error indicators	• SQL/MP requirements • SCA broker • Lab: Create and deploy projects that use SQL/MX and SQL/MP
Module 8: Java Projects	• Creating a Java project • Deployable JAR files • Executing on NonStop systems	• Accessing JToolkit • Using the Eclipse debugger and NonStop Java • Lab: Create and debug a Java Project
Module 9: Remote Projects	• Creating remote Guardian and OSS projects • Remote build operations	• Simultaneous file update detection
Module 10: Miscellaneous Topics	• Displaying configuration information • Installation history	• Error logs
Module 11: Converting ETK Projects	• The migration utility • Propagated properties	• Adjusting properties

Onsite Delivery Equipment Requirements :

• Any model of Integrity NonStop system running J06.14 or later, or L16.05 or later

• Software: - SQL/MX and SQL/MP - NonStop Java

• Workstations: - TNS/X (or TNS/E) cross-compilers - ODBC/MX (if using SQL/MX) - Java 1.8 or later - Eclipse and NSDEE
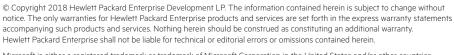
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