



HP Education Services

HP NonStop Development Environment for Eclipse (HG754S)

This course prepares you to use the HP NonStop Development Environment for Eclipse (NSDEE) to develop, build, and deploy applications for the Integrity NonStop and Integrity NonStop BladeSystem. Topics include the installation of Eclipse, NSDEE and prerequisite products, the use of the supplied skeleton programs, the accessing of SQL/MP and SQL/MX databases, the inclusion of existing code, and the use of the Eclipse debugger and Visual Inspect. Languages covered are C/C++, COBOL, pTAL, and Java. The 2-day course is 60 percent lecture and 40 percent hands-on labs using HP servers.

Audience

- Application developers
- System analysts
- Technical support personnel

Prerequisites

- Concepts and Facilities for HP NonStop Systems (U4147S) and
- At least six months development experience on NonStop servers

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 or Visual Inspect
- Convert existing ETK projects to NSDEE

Benefits to you

- Learn how to install and use HP NonStop Development Environment for Eclipse (NSDEE) to create applications in an open environment
- Gain valuable hands-on experience using Eclipse and NSDEE

Course title:	HP NonStop Development Environment for Eclipse
HP product number:	HG754S
Category/Subcategory:	NonStop Server/Application Design and
Course length:	2 days
Level:	Intermediate
Delivery language:	English
To order:	To review course schedules and to register for a course, visit www.hp.com/learn/nonstop and select your country from the drop down menu, or, contact your HP sales representative or HP authorized channel partner.

Why education services from HP?

- Focus on job-specific skills
- Hands-on practice

- Experienced and best-in-the-field HP instructors
- Comprehensive student materials
- More than 80 training locations worldwide
- Customized on-site delivery

Next steps

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

Detailed course outline

Module 1 - Introduction

- Eclipse background and key features of NSDEE
- Benefits of using Eclipse with NSDEE
- Project types

Module 2 - 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 3 - 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 4 - 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 5 - 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 6 - Visual Inspect

- Starting Visual Inspect
- Application and program control views
- Controlling execution
- Displaying and changing data variables
- Watch windows
- Source file assignment
- Lab: use Visual Inspect 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 H06.24 or later
- Software:
 - – SQL/MX and SQL/MP
 - – NonStop Java
- Workstations:
 - – TNS/E cross-compilers
 - – ODBC/MX (if using SQL/MX)
 - – Java 1.6 or later
 - – Eclipse and NSDEE
 - – Visual Inspect

For more information

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