



hp services

education

course description

## enterprise toolkit (U5081S)

### course overview

In this 2-day course you will learn how to use the Enterprise Toolkit (ETK) to build applications for both the Open System Services (OSS) and Guardian environments of the HP NonStop™ Kernel operating system, including programs with embedded SQL statements. "Build" means code, compile, link and deploy onto the NonStop server.

Users new to the NonStop server application development environment will benefit from learning how to exploit the compiler features. You will learn to use Visual Inspect (VI) to debug programs from the desktop.

Hands-on labs are used at various points to provide reinforcement of the lecture material. This course is intended for developers who will be creating applications for, or porting applications to, a NonStop server.

### audience

System designers, application developers, and support personnel

### benefits to you

- Overview of Visual Studio .NET
- ETK and its benefits
- ETK product packaging
- ETK terminology
- Get started with ETK
- Access to include files and copy files
- Compilation, linking and builds
- Object file attributes and compiler options
- Use of TAACL DEFINEs
- Use of embedded SQL and SQL compilation
- Deployment and other tools such as the archive (ar) tool
- Debugging with Visual Inspect

### prerequisites

- Concepts and Facilities course
- Working knowledge of either C, C++, COBOL85 or pTAL
- Working knowledge of NonStop SQL

Recommended:

- Introduction to Open System Services (OSS) for Guardian Developers course
- Open System Services (OSS) for UNIX Application Developers course
- Working knowledge of Microsoft Visual Studio .NET

**to order**

You can order this course online at <http://education.hp.com>. At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

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module	key topics
product overview	<ul style="list-style-type: none"><li>• Overview of Visual Studio .NET</li><li>• Description of Enterprise ToolKit (ETK)</li><li>• Benefits of ETK</li><li>• Product packaging</li><li>• Relevant third party tools</li></ul>
application build	<ul style="list-style-type: none"><li>• ETK terminology</li><li>• Steps in a build</li><li>• Compiler options</li><li>• Object properties</li><li>• Use of Include files and Copy files</li><li>• Deployment</li></ul> Lab Exercise <ul style="list-style-type: none"><li>• Create and compile programs in C, COBOL85 or pTAL and deploy</li></ul>
NonStop SQL considerations	<ul style="list-style-type: none"><li>• DEFINEs and their usage</li><li>• Embedded SQL/MP settings</li><li>• Embedded SQL/MX settings</li><li>• Building and deploying an SQL application</li><li>• Problem scenarios</li></ul> Lab Exercise <ul style="list-style-type: none"><li>• Code and deploy an application (C or COBOL85) with embedded SQL statements</li></ul>
tools	<ul style="list-style-type: none"><li>• Transfer tool</li><li>• Archive (ar) tool</li><li>• TAcl DEFINE</li><li>• Fix Include</li></ul>
debugging with Visual Inspect	<ul style="list-style-type: none"><li>• Overview of Visual Inspect (VI)</li><li>• VI components and capabilities</li><li>• Use of VI interfaces in debugging</li></ul> Lab Exercise <ul style="list-style-type: none"><li>• Use Visual Inspect to debug C, COBOL85, or pTAL programs</li></ul>
general questions and answers	<ul style="list-style-type: none"><li>• FAQs</li></ul>

### for more information

For more information on HP Education Services, contact any of our worldwide offices or visit our worldwide web site on the internet at <http://education.hp.com>

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