

# HPE NonStop Transaction Management Facility Operations and Management U4186S

<b>HPE course number</b>	U4186S
<b>Course length</b>	4 days
<b>Delivery mode</b>	ILT, VILT
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This course provides an intensive introduction to the HPE NonStop Transaction Management Facility (TMF). You learn terminology, components, and how HPE NonStop TMF provides database protection. You participate in lab exercises covering media management, audit and online dumps, volume and file recovery, catalog manipulation, configuration, routine operations, and how to prepare for orderly recovery. This course is 60 percent lecture and 40 percent hands-on labs using HPE NonStop servers.

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## Audience

- Database administrators
- System managers
- System operators
- Technical support analysts

## Prerequisites

- HPE NonStop S-series Server Administration I(U5448S) and HPE NonStop S-series Server Administration II (U5449S) or
- HPE NonStop NS-series Server Administration I(U8528S) and HPE NonStop NS-series Server Administration II (U8638S) or
- Concepts and Facilities for HPE NonStop Systems (U4147S) and
- System management experience on HPE NonStop K-series, HPE NonStop S-series, or HPE NonStop NS-series servers

## Course objectives

- At the conclusion of this course, you should be able to
- Recognize which system and software components are necessary for HPE NonStop TMF to provide both minimum and full protection functions
  - Plan, write, and execute an HPE NonStop TMF configuration, with and without file recovery
  - Choose the appropriate values for the HPE NonStop TMF configuration attributes based upon your particular needs
  - Use the appropriate TMFCOM commands to perform routine maintenance on HPE NonStop TMF objects
  - Learn how to use the appropriate TMFCOM commands to perform monitoring and configuration activities and routine maintenance on NonStop TMF objects
  - Improve operational efficiencies by gaining valuable hands-on experience running and configuring TMF
  - Learn how to recover from accidental or intentional database modification or deletion by enabling your applications to use HPE NonStop TMF software

## Detailed course outline

<b>Module 1 – Introduction to Transaction Management</b>	<ul style="list-style-type: none"> <li>Challenges and solutions in maintaining an online database</li> <li>Purpose and function of the different database protection strategies</li> </ul>	<ul style="list-style-type: none"> <li>Protection terms and concepts associated with a database</li> <li>Lab exercise:             <ul style="list-style-type: none"> <li>Data integrity</li> </ul> </li> </ul>
<b>Module 2 – HPE NonStop TMF Components</b>	<ul style="list-style-type: none"> <li>Major software and system components of HPE NonStop TMF and their functions</li> <li>System and software components necessary for HPE NonStop TMF to provide both minimum protection and full protection functions</li> </ul>	<ul style="list-style-type: none"> <li>Database protection fundamental design of HPE NonStop server hardware and software</li> </ul>
<b>Module 3 – HPE NonStop TMF Configuration Planning and Installation</b>	<ul style="list-style-type: none"> <li>HPE NonStop TMF configuration examples with and without file recovery</li> <li>Choosing appropriate values for the HPE NonStop TMF configuration attributes</li> </ul>	<ul style="list-style-type: none"> <li>Subsystem and application impact of specific operations</li> <li>Lab exercise:             <ul style="list-style-type: none"> <li>Utilities for HPE NonStop TMF operations</li> </ul> </li> </ul>
<b>Module 4 – HPE NonStop TMF Operations Overview</b>	<ul style="list-style-type: none"> <li>Routine and corrective HPE NonStop TMF operations and management tasks</li> <li>Display information from TMFCOM commands</li> </ul>	<ul style="list-style-type: none"> <li>Use of other system utilities to perform HPE NonStop TMF proactive tasks</li> </ul>
<b>Module 5 – HPE NonStop TMF Catalog Operations</b>	<ul style="list-style-type: none"> <li>TMFCOM commands to use and manipulate the HPE NonStop TMF catalog</li> </ul>	<ul style="list-style-type: none"> <li>Lab exercise:             <ul style="list-style-type: none"> <li>HPE NonStop TMF labeled tape processing;</li> <li>HPE NonStop TMF dumps and file recovery;</li> <li>HPE NonStop TMF dump operations</li> </ul> </li> </ul>
<b>Module 6 – HPE NonStop TMF Data Volume Operations</b>	<ul style="list-style-type: none"> <li>Data volume manipulations</li> <li>Online dumps</li> </ul>	<ul style="list-style-type: none"> <li>Volume recovery</li> <li>File recovery</li> </ul>
<b>Module 7 – HPE NonStop TMF Audit Trail Operations</b>	<ul style="list-style-type: none"> <li>Multivolume audit trails</li> <li>Audit trail volume manipulations</li> <li>Audit trail files</li> <li>Overflow volumes</li> <li>Restore volumes</li> </ul>	<ul style="list-style-type: none"> <li>Lab exercise:             <ul style="list-style-type: none"> <li>HPE NonStop TMF operator messages;</li> <li>HPE NonStop TMF configuration;</li> <li>HPE NonStop TMF data volumes;</li> <li>HPE NonStop TMF audit trail operations</li> </ul> </li> </ul>
<b>Module 8 – HPE NonStop TMF Transaction Operations</b>	<ul style="list-style-type: none"> <li>Local transactions</li> <li>Distributed transactions</li> </ul>	<ul style="list-style-type: none"> <li>Heterogeneous transactions</li> <li>Transaction thresholds</li> </ul>

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