

HP NonStop Transaction Management Facility (TMF) operations and management U4186S

This course provides an intensive introduction to the HP NonStop Transaction Management Facility (TMF). You will learn terminology, components, and how NonStop TMF provides database protection. You will 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 4-day course is 60 percent lecture and 40 percent hands-on labs using HP servers.

HP NonStop Transaction Management Facility (TMF) operations and management

Price USD \$3,200

Links to local schedules, pricing and registration [US/Canada](#)
[Mexico/Latin America](#)
[Brazil](#)

HP course # U4186S

Category NonStop

Duration 4 days

Audience

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

Prerequisites

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

Benefits to you

- 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 NonStop TMF software

Next steps

- Consider attending the other optional and advanced learning courses in the HP NonStop Operations Management curriculum

Course outline

Module 1 - Introduction to Transaction Management

- Challenges and solutions in maintaining an online database
- Purpose and function of the different database protection strategies
- Protection terms and concepts associated with a database
- Lab: data integrity

Module 2 - NonStop TMF Components

- Major software and system components of NonStop TMF and their functions
- System and software components necessary for NonStop TMF to provide both minimum protection and full protection functions
- Database protection fundamental design of NonStop server hardware and software

Module 3 - NonStop TMF Configuration Planning and Installation

- NonStop TMF configuration examples with and without file recovery
- Choosing appropriate values for the NonStop TMF configuration attributes
- Subsystem and application impact of specific operations
- Lab: utilities for NonStop TMF operations

Module 4 - NonStop TMF Operations Overview

- Routine and corrective NonStop TMF operations and management tasks
- Display information from TMFCOM commands
- Use of other system utilities to perform NonStop TMF proactive tasks

Module 5 - NonStop TMF Catalog Operations

- TMFCOM commands to use and manipulate the NonStop TMF catalog
- Lab exercises (4 hours):
 - NonStop TMF labeled tape processing
 - NonStop TMF dumps and file recovery
 - NonStop TMF dump operations

Module 6 - NonStop TMF Data Volume Operations

- Data volume manipulations
- Online dumps
- Volume recovery
- File recovery

Module 7 - NonStop TMF Audit Trail Operations

- Multivolume audit trails
- Audit-trail volume manipulations
- Audit-trail files
- Overflow volumes
- Restore volumes
- Labs:
 - NonStop TMF operator messages
 - NonStop TMF configuration
 - NonStop TMF data volumes
 - NonStop TMF audit trail operations

Module 8 - NonStop TMF Transaction Operations

- Local transactions
- Distributed transactions
- Heterogeneous transactions
- Transaction thresholds

Onsite Delivery Equipment Requirements

- One dedicated NonStop NS-Series server with a minimum of:
 - NonStop Kernel operating system, version H06.03 or later
 - Six disk volumes in addition to the system disk
 - 96 MB memory per CPU
 - Ethernet connectivity
 - TCP/IP software package (SD20)
- One PC per student and one PC for the instructor with projection capabilities
- All PCs must have Outside View or MR-Win6530 and have connectivity to the server
- No other use of the NonStop TMF subsystem by any other class or product
- One volume that can be taken down multiple times in class to demo a crashed database

Note: The recommended maximum class size is 10 students.

Learn more at

hpe.com/us/training/nonstop