

**Module 1: Exploring Replication**

This module provides an overview of replication, replication setup, describes the function of replication agents, and replication security.

**Lessons**

- Understanding SQL Server Replication
- Setting up Replication
- Understanding Agents in Replication
- Securing Replication

After completing this module, students will be able to:

- Define replication.
- Set up replication.
- Describe the functions of replication agents.
- Security-enhanced replication.

**Module 2: Implementing Replication**

This module describes the SQL Server platform for replication and discusses how to replicate data and objects, and design and troubleshoot a replication type.

**Lessons**

- Understanding the SQL Server Platform for Replication
- Replicating Data and Objects
- Replicating and Executing Objects
- Designing a Replication Topology
- Troubleshooting a Replication Implementation

**Lab 2: Implementing Replication**

- Determining the Replication Type
- Implementing Snapshot Replication
- Implementing Transactional Replication
- Implementing Merge Replication
- Removing Subscriptions and Publications

After completing this module, students will be able to:

- Describe the SQL Server platform for replication.
- Replicate data and objects.
- Replicate and execute objects.
- Design the best replication type for a given business problem.
- Monitor, troubleshoot, and tune replication.

### **Module 3: Implementing Snapshot Replication**

This module explains how to plan, deploy, administer, and troubleshoot snapshot replication.

#### **Lessons**

- Understanding Snapshot Replication Architecture
- Replicating Snapshot Publications Efficiently
- Troubleshooting Snapshot Replication

### **Lab 3: Implementing Snapshot Replication**

- Using Snapshot Replication with Custom Properties

After completing this module, students will be able to:

- Describe the architecture of snapshot replication.
- Replicate snapshot publications efficiently.
- Troubleshoot snapshot replication.

### **Module 4: Implementing Transactional Replication**

This module explains how to plan, deploy, and troubleshoot and tune transactional replication.

#### **Lessons**

- Understanding Transactional Replication Architecture
- Replicating with Transactional Replication
- Implementing Updatable Transactional Replication
- Facilitating Transactional Replication by Using Stored Procedures
- Troubleshooting Transactional Replication
- Tuning Transactional Replication

### **Lab 4: Implementing Transactional Replication**

- Designing a Transactional Replication Solution

After completing this module, students will be able to:

- Describe transactional replication.
- Replicate with transactional replication.
- Implement updatable transactional replication.
- Facilitate transactional replication using stored procedures.
- Troubleshoot transactional replication.
- Tune transactional replication.

### **Module 5: Implementing Merge Replication**

This module explains how to plan, deploy, and troubleshoot and tune merge replication.

#### **Lessons**

- Understanding Merge Replication Architecture
- Implementing Conflict Resolution
- Planning and Deploying Merge Replication
- Troubleshooting Merge Replication
- Tuning Merge Replication

### **Lab 5A: Implementing Merge Replication**

- Using Dynamic and Join Filters with Merge Replication

After completing this module, students will be able to:

- Describe the architecture of merge replication.
- Implement conflict resolution.
- Plan and deploy merge replication.
- Troubleshoot merge replication.
- Tune merge replication.

### **Module 6: Implementing SQL Server Replication in an Enterprise Environment**

This module explains how to design replication for heterogeneous database systems and implement Enterprise replication scenarios, including backing up and restoring database systems.

### Lessons

- Planning for Disaster Recovery in a Replicated Environment
- Upgrading and Applying Service Packs in a Replicated Environment
- Understanding Enterprise Options in a Replicated Environment
- Understanding Replication with Heterogeneous Database Systems

After completing this module, students will be able to:

- Plan disaster recovery for replication.
- Upgrade and apply service packs in a replicated environment.
- Understand key options concerning replication in some enterprise environments.
- Understand replication with heterogeneous database systems.

**Contact the training coordinator for pricing and details at 613-563-NOVA (6682) Ext:250 Or [training@nova-networks.com](mailto:training@nova-networks.com)**

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