

## FS-2040A SQL Server Backup and Recovery (Duration 1Day)



### What will you learn?

The focus of this 2day instructor-led course is on SQL Server backup and recovery features along with methods to set RTO, RPO, backup and recovery performance tuning. This course helps you prepare for the **Exam 70-762 & 70-462**.

### Who is the Audience?

The primary audience for this course is IT administrator who need to fulfil DBA roles to create enterprise backup and recovery solution.

Primary responsibilities will include:

- Providing disaster recovery solution for database environment.
- Database backup and recovery with minimum amount of time.
- Database backup and recovery performance tuning.

### What are the Prerequisites?

Before attending this course, students must have:

- Basic knowledge about relational databases.
- Basic knowledge of querying data using Transact-SQL.

### What are the Course Objectives?

After completing this course, students will be able to:

- Understand differences between SQL Server Enterprise and Standard edition in terms of internal functionalities.
- Differentiate types of disaster recovery features and explain what is called disaster recovery in IT world.
- Design database backup plan strategy to meet their business requirements.
- Understand the internal activities in Transaction Log file and best practices of handling Transaction Log file.
- Performance tune the database backup and recovery process to meet the defined SLA.

### What are the Course Outlines?

#### Module 1: Introduction to SQL Server

This module introduces the overview of SQL Server and compare Enterprise and Standard edition based on internal features.

#### Lessons:

- Overview of SQL Server
- SQL Server Enterprise vs. Standard Edition

#### Module 2: What is Disaster Recovery

This module describes different types of disaster recovery features along with types of database corruption after disaster occurs, at the end of module; participants will be able to design the disaster recovery plan.

#### Lessons:

- Disaster in IT World.
- Type of Disaster Recovery Features.

- Types of Corruptions After Disaster.

**Labs:**

- Design Disaster Recovery Plan.

Module 3: Database Backup Plan Strategy

This module describes what are the RTO and RPO, with explanation of database recovery model and the impact on disaster recovery plan.

**Lessons:**

- What is RTO and RPO?
- Database Recovery Models
- SQL Server Database Backup Internals
- Importance of Database Backup
- Understanding Database Backups

**Labs:**

- Design Backup Plan Strategy for Fard Solutions

Module 4: SQL Server Storage Engine Internals

This module describes the processes within Storage Engine and how SQL Server handles the data pages and transaction log file.

**Lessons:**

- SQL Server Database File Placement
- SQL Server Storage Engine and Data Pages
- SQL Server Transaction Log Internals

**Labs:**

- Database File Placement Design

Module 5: SQL Server Database Backup Solutions

This module describes the best database backup plan solution and compares the native backup with third-party software.

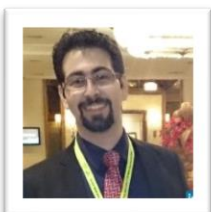
**Lessons:**

- Figure Out Best Backup Plan.
- Why Native Backup?

**Labs:**

- Tune up the Backup and Recovery Performance

**About Trainer:**



Hamid is SQL Server Data BI Platform Expert with more than 10 years' of professional experience, He is holding Microsoft Certified Master: SQL Server 2008, Microsoft Certified Solutions Master: Charter-Data Platform, Microsoft Data Platform MVP Award and CIW Database Design Specialist Certifications. He had trained more than 200 students from Banking, Manufacturing, Insurance and Technology industries in well-known training centers in Malaysia.

