# WS-050T00-A: Migrating Application Workloads to Azure

**Course Outline**

**Module 1: Planning and Assessing and Azure Migration**

In this module, you'll learn about the key business and technical drivers leading to a cloud migration, the phases of an Azure migration and tools and services used for each phase. You will learn how to discover and assess your on-premises environments in preparation to migrate the appropriate workloads to Azure.**Lessons**

- Cloud Migration – Business Motivations, Goals and Outcomes
- Discovery and Assessment

**Lab : Discover and Assess On-Premises Resources for Migration**

**Module 2: Implementing a Migration (Azure Site Recovery)**

In this module, you'll learn how to prepare the on-premises infrastructure and the Azure components ahead of the planned migration. You'll also learn how to perform and end to end migration using Azure Site Recovery.

**Lessons**

- Overview of Azure Site Recovery
- ASR Migration – End to End
- Securing Migrated Workloads – Microsoft Recommendations
- Datacenter Migration using Migration Factory

**Lab : Replicate Virtual Machines to Azure**

**Module 3: Introduction to Data Migration**

In this module, you'll learn about solutions you can use when you need to securely send terabytes of data to Azure. You will learn about the Azure Data Box family of products with both online and offline transfer options. You will then learn about migrating an on-premises SQL Server 2008R2 database to Azure SQL Database Managed Instance (MI), using the Azure Database Migration Service (DMS).

**Lessons**

- Azure Data Box
- Database Migration

**Lab : Migrate On-Premises SQL Server Database to Azure SQL Managed Instance**

**Module 4: Backup and Disaster Recovery in Azure**

In this module, you'll learn about the key components of a business continuity strategy and what is required for a highly available solution. You will also learn how to implement Azure IaaS virtual machine back up using the Azure Backup service. Additionally, you will learn how to replicate Azure VMs to any other Azure location using Azure Site Recovery.**Lessons**

- Azure Backup Overview
- Implementing Azure IaaS Backup
- Azure to Azure Site Recovery
- Application Disaster Recovery