

<b>LNT CE Microsoft</b>
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**LNT 8215 Implement and Manage MS Server Virtualization (1-1) 1.5 crs.**

Provides knowledge and skills to deploy and manage a server virtualization environment, Hyper-V and Remote Desktop Services on Windows Server. Provides details on how to manage a server virtualization environment by using System Center products, Virtual Machine Manager, Systems Center Operations Manager, System Center Configuration Manager.

**LNT 8364 Database Administration Fundamentals (0.5-1) 1 cr.**

Builds an understanding of database administration. Understands core database concepts. Creates database objects. Manipulates data and data storage. Learns how to administer a database. This course prepares students for the Microsoft Technology Associate Exam 98-364.

**Prerequisite:** LCT 0310 (Introduction to Windows Environment) or equivalent experience.

**LNT 8410 Installing and Configuring Windows Server 2012 (1-1) 1.5 crs.**

Provides the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. Covers Active Directory Services, networking services, and Hyper-V configuration. Teaches implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment, Prepares for Microsoft Certification Exam 70-410: Installing and Configuring Windows Server 2012. Recommended preparation: LAP 8002, Network+ or equivalent experience.

**LNT 8411 Administering Windows Server 2012 (1-1) 1.5 crs.**

Provides the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. Covers the administration tasks necessary to maintain a Windows Server 2012 Infrastructure, such as group management, network access and data security. Prepares for Microsoft Certification Exam 70-411: Administering Windows Server 2012. Recommended preparation: LNT 8410, strong hands-on experience working in a Windows Server environment, or equivalent.

**LNT 8412 Configuring Advanced Windows Server 2012 Services (1-1) 1.5 crs.**

Teaches how to provision and configure advanced services using Windows Server 2012 and provides the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure. Covers the advanced configuration of services necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as advanced networking services, Active Directory Domain Services, identity management, rights management, Federated Services, network load balancing, failover clustering, business continuity and disaster recovery. Prepares for Microsoft certification exam 70-412: Configuring Advanced Windows Server 2012 Services.

**LNT 8466 Implementing Data Models and Reports With MS SQL Server (1-1) 1.5 crs.**

Shows how to create managed, enterprise Business Intelligence (BI) solutions. Instructs on implementing multidimensional and tabular data models, delivering reports with Microsoft SQL Server Reporting Services, creating dashboards with Microsoft SharePoint Server PerformancePoint Services, and discovering business insights by using data mining. Is designed for students who are interested in learning SQL Server 2012 or SQL Server 2014. Covers the new features in SQL Server 2014, but also the important capabilities across the SQL Server data platform. Recommended Preparation: at least two years' experience working with relational databases, including: designing a normalized database, creating tables and relationships, querying with Transact-SQL, some basic knowledge of data warehouse schema topology (including star and snowflake schemas), some exposure to basic programming constructs (such as looping and branching), and an awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.

**LNT 8467 Designing Self-Service Business Intelligence and Big Data Solutions (1-1) 1.5 crs.**

Teaches self-service Business Intelligence (BI) and Big Data analysis solutions using the Microsoft data platform. Discusses the rationale for self-service BI, and describes how to use Microsoft SQL Server Reporting Services, Microsoft Excel, Microsoft SharePoint Server, and Microsoft Office 365 Power BI to create self-service data models and reports. Describes how to use Windows Azure HDInsight to perform Big Data analysis. Instructs students who are interested in learning SQL Server 2012 or SQL Server 2014. Covers the new features in SQL Server 2014, but also the important capabilities across the SQL Server data platform. Recommended Preparation: knowledge of data warehousing and data modeling principles and familiarity with Microsoft Excel and Microsoft SharePoint Server 2013.

**LNT 8480 Programming in HTML5 With Javascript and CSS3 (1-1) 1.5 crs.**

Provides an introduction to HTML5, CSS3, and JavaScript programming. Instructs on programming logic, define and use variables, perform looping and branching, develop user interfaces, capture and validate user input, store data, and create well-structured applications. Prepares for Microsoft certification exam 70-480: Programming in HTML5 with JavaScript and CSS3. Is intended for professional developers with 1 to 3 months experience creating Web applications, including JavaScript code, experience with Visual Studio. Recommended preparation: LCT 0190, LCT 0193, LCT 0210, LCT 220 and LCT 0290.

**LNT 8483 Programming in C# (1-1) 1.5 crs.**

Teaches programming skills required for developers to create Windows applications using the C# language. Includes basics of C# program structure, language syntax, implementation detail and building an application that incorporates features of the .NET framework. Introduces techniques and technologies employed by modern desktop and enterprise applications including building new data types, handling events, programming the user interface, accessing the database, using remote data, performing operations asynchronously, integrating with unmanaged code, creating custom attributes and encrypting and decrypting data. Prepares for Microsoft certification exam 70-483 Programming in C#.

**LNT 8486 Developing ASP.NET MVC for Web Applications (1-2) 2 crs.**

Teaches how to develop advanced ASP.NET MVC applications using the .NET framework and technologies. Incorporates coding activities that enhance performance and scalability of website applications. Imports knowledge of developing advanced web applications and creating websites that separate the user interface, data access and application logic. Prepares for Microsoft certification exam 70-486 Developing ASP.NET MVC 4 Web Applications. Recommended Preparation: LNT8480, or equivalent knowledge. Experience with JavaScript, object-oriented programming and developing web-based applications required.

**LNT 8487 Developing Windows Azure and Web Services (1-2) 2 crs.**

Teaches how to design and develop services that access local and remote data from various data sources. Explains how to develop and deploy services to hybrid environments including on-premises servers and Windows Azure. Prepares for Microsoft Certification Exam 70-487 Developing Windows Azure and Web Services. Recommended Preparation: LNT8486, or equivalent knowledge. Experience with C# programming, ASP.NET and developing web-based applications required.

**LNT 8532 Developing Microsoft Azure Solutions (1-1) 1.5 crs.**

Teaches students to take an existing ASP.NET MVC application and expand its functionality as part of moving it to Azure. Students will learn how to build an application infrastructure in Azure, host web applications on the Azure platform, store SQL data and tabular data in Azure, design Cloud applications, automate integration with Azure resources, and secure Azure web applications.

**Prerequisite:** Recommended preparation includes professional experience; experience working with the Azure platform and a general understanding of C# concepts for the lab scenario.

**LNT 8698 Installing and Configuring Windows 10 (1-2) 2 crs.**

Provides IT professionals with the knowledge and skills required to install and configure Windows 10 desktops in a Windows Server small to medium-sized AD DS domain environment. Teaches how to install and customize Windows 10 operating systems and apps; configure local and remote network connectivity; and configure local and online storage. Explores how to configure security in addition to how to maintain, update and recover Windows 10.

**Prerequisite:** Recommended preparation includes some experience supporting Windows, working in a Windows Server Active Directory Domain Services (AD DS) environment and working with network services.

**LNT 8740 Installation, Storage and Compute With Windows Server 2016 (1-2) 2 crs.**

Teaches how to manage storage and computing by using Windows Server 2016. Demonstrates the scenarios, requirements and storage/computing options that are available and applicable to Windows Server 2016. This is usually offered as a five-day course that is designed primarily for IT professionals who have some experience with Windows Server.

**Prerequisite:** Recommended preparation includes experience working with Windows Server as well as general IT and networking knowledge.

**LNT 8741 Networking With Windows Server 2016 (1-2) 2 crs.**

Provides the fundamental networking skills required to deploy and support Windows Server 2016 in most organizations. Covers IP fundamentals, remote access technologies and more advanced content including Software Defined Networking.

**Prerequisite:** LNT 8740 (Installation, Storage, and Compute with Windows Server 2016) with a satisfactory grade or equivalent experience.

**LNT 8742 Identity With Windows Server 2016 (1-2) 2 crs.**

Teaches IT Pros how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment, how to implement Group Policy, how to perform backup and restore, and how to monitor and troubleshoot Active Directory-related issues with Windows Server 2016. Examines how to deploy other Active Directory server roles such as Active Directory Federation Services (AD FS) and Active Directory Certificate Services (AD CS).

**Recommended:** LNT 8741 (Networking with Windows Server 2016) or equivalent experience.

**LNT 8761 Querying Data With Transact-SQL (1-1) 1.5 crs.**

Provides students with a good understanding of the Transact-SQL language which is used by all SQL Server-related disciplines; namely, Database Administration, Database Development and Business Intelligence. Teaches how to write SELECT queries, query multiple tables, sort and filter data, use built-in functions, group and aggregate data types, work with table expressions and set operators, and program with T-SQL.

**Prerequisite:** Recommended preparation includes basic knowledge of the Microsoft Windows operating system and its core functionality, and working knowledge of relational databases.

**LNT 8764 Administering a SQL Database Infrastructure (1-2) 2 crs.**

Provides students who administer and maintain SQL Server databases with the knowledge and skills to administer a SQL server database infrastructure. Useful for individuals who develop applications that deliver content from SQL Server databases. Learn how to authenticate and authorize users and access resources. Understand how to monitor and troubleshoot a SQL Server infrastructure.

**Recommended:** Basic knowledge of the Microsoft Windows operating system and its core functionality; working knowledge of Transact-SQL, working knowledge of relational databases, and some experience with database design.

**LNT 8765 Provisioning SQL Databases (0.5-1) 1 cr.**

Provides students with the knowledge and skills to provision a Microsoft SQL Server 2016 database. Covers SQL Server 2016 provision both on-premise and in Azure, and covers installing from new and migrating from an existing install. Learn to upgrade and configure SQL servers. Manage databases and files.

**Recommended:** Basic knowledge of the Microsoft Windows operating system and its core functionality, working knowledge of Transact-SQL, working knowledge of relational databases, and some experience with database design.

**LNT 8767 Implementing a SQL Data Warehouse (1-1) 1.5 crs.**

Provides students with the knowledge and skills to provision a Microsoft SQL Server 2016 database. Covers SQL Server 2016 provision both on-premise and in Azure, and covers installing from new and migrating from an existing install. Focuses on hands-on work creating BI solutions, including Data Warehouse implementation, ETL, and data cleansing.

**Recommended:** Basic knowledge of the Microsoft Windows operating system and its core functionality, working knowledge of relational databases, and some experience with database design.

**LNT 8768 Developing SQL Data Models (0.5-1) 1 cr.**

Focuses on creating managed enterprise BI solutions. Describes how to implement both multi-dimensional and tabular data models and how to create cubes, dimensions, measures and measure groups. Learn how to implement multidimensional databases and create tabular semantic data models for analysis by using SQL Server Analysis Services.

**Recommended:** Students must have experience of querying data using Transact-SQL.

**LNT 8774 Querying Microsoft SQL Server (1-1) 1.5 crs.**

Provides knowledge with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server. Serves as a foundation for all SQL Server-related disciplines in database administration, database development and business intelligence. Recommended Preparation: Working knowledge of relational databases and basic knowledge of the Microsoft Windows operating system.

**LNT 8775 Administering Microsoft SQL Server Databases (1-1) 1.5 crs.**

Provides knowledge and skills to maintain a Microsoft SQL Server database. Focuses on how to use SQL Server features and tools related to maintaining a database. Teaches SQL Server servicing, automated updates, database containment, user-defined server roles, in-place upgrades of data-tier applications, high availability and replication concepts.

**LNT 8777 Implementing Data Warehouse With MS SQL Server (1-1) 1.5 crs.**

Prepares students to implement a Business Intelligence platform to support information worker analytics. Imparts knowledge on how to create a data warehouse with SQL Server 2012/2014, implement Export Transport Load (ETL) with SQL Server Integration Services, validate and cleanse data with SQL Server Data Quality Services and SQL Server Master Data Services. Prepares for Microsoft certification exam 70-463: Implementing a Data Warehouse with Microsoft SQL Server. Recommended Preparation: LNT 8774 (Administering MS SQL Server Databases), working knowledge of Transact-SQL, relational databases and some experience with database design.

**LNT 8887 Implementing Data Models and Reports Using MS SQL Server 2012 (1-1) 1.5 crs.**

Teaches how to implement multidimensional analysis solutions, create PowerPivot and tabular data models, deliver rich data visualizations with PowerView and SQL Server Reporting Services. Discover business insights by using data mining, self-service analytics and reporting. Prepares for Microsoft certification exam 70-463 Implementing Data Models and Reports with Microsoft SQL Server 2012. Recommended Preparation: LNT8774 Querying Microsoft SQL Server 2012, or equivalent knowledge of querying with Transact-SQL. Experience with relational databases required.

**LNT 8961 Automating Administration With Windows Powershell 4.0 (1-2) 2 crs.**

Provides students with the fundamental knowledge and skills to remotely manage multiple Windows-based servers and automate day-to-day management and administration tasks by using Windows PowerShell v4.0 with Windows-based servers. Focuses on primary Windows PowerShell command-line features and techniques. Provides prerequisite skills supporting a broad range of Microsoft products including Windows Server, Windows Client, Exchange Server, SharePoint Server, SQL Server, System Center and more.

**Prerequisite:** Recommended preparation includes previous Windows Server and Windows Client management experience. Knowledge and experience of network adapter configuration, basic Active Directory user administration and basic disk configuration would be very helpful.