

413 – Designing and Implementing a Server Infrastructure

Microsoft Official Courses (MOC)

Course 20413 (20413C): Designing and Implementing a Server Infrastructure



About this Course

- Get hands-on instruction and practice planning, designing and deploying a physical and logical Windows Server® 2012 R2 enterprise infrastructure in this 5-day Microsoft Official course. This course is part one in a series of two courses that

provides the skills and knowledge necessary to design and implement a Windows Server 2012 R2 infrastructure in an enterprise environment. The two courses collectively cover designing, planning, deploying, securing, monitoring, automating, and virtualizing an enterprise server infrastructure. This course covers the knowledge and skills needed to provide an enterprise solution that supports manual and automated server installations in a physical and virtual environment including the supporting file and storage services. You will also learn the skills necessary to provide enterprise networking solutions such as DHCP, IPAM, VPN, and DirectAccess. You will also learn the skills necessary to design and implement a forest and domain infrastructure including multi domains/forest and branch office scenarios. This course maps directly to and is the preferred choice for hands-on preparation for Microsoft Certified Solutions Expert (MCSE): Exam 413: Designing and Implementing and Server Infrastructure, which is the fourth of five exams required for MCSE: Server Infrastructure certification.

NOTE: Labs in this course are based on Windows Server 2012 R2 and System Center 2012 R2. This course is designed for experienced IT professionals who support medium to large enterprises and have experience administering Windows Server 2012 R2 and have an MCSA: Windows Server 2012 certification or equivalent skills.

Course Goals/Skills

- Plan server upgrade and migration.
 - Plan and implement a server deployment strategy.
 - Plan and deploy servers by using System Center 2012 R2 Virtual Machine Manager (VMM).
 - Design and maintain an IP configuration and address management solution.
 - Design and implement name resolution.
 - Design and implement an AD DS forest and domain infrastructure.
 - Design and implement an AD DS organizational unit (OU) infrastructure.
 - Design and implement a Group Policy Object (GPO) strategy.
 - Design and implement an AD DS physical topology.
 - Plan and implement storage and file services.
 - Design and implement network protection.
 - Design and implement remote access services.
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Audience

- This course is intended for IT professionals who are responsible for planning, designing, and deploying a physical and a logical Windows Server 2012 enterprise Active Directory® Domain Services (AD DS) infrastructure including the network services necessary. They have experience of previous Windows Server operating systems and possess Windows Server 2012 certification Microsoft Certified Solutions Associate (MCSA) or equivalent skills. The course is also intended for IT professionals who are looking to take the exam 70-413: Designing and Implementing a Server Infrastructure, as a stand-alone, or as part of the requirement for the Microsoft

Course Format

	
Присъствен (Classroom) Курс в Учебната ни зала или В Офис на Клиент	Онлайн (Online/Virtual) Курс във виртуална зала с инструктор

Course Language Option

	
Български (Bulgarian)	Английски (English)

You can choose the language in which the training will be conducted – Bulgarian or English. All our instructors are fluent in English.

Student Guides



The training materials are available in electronic format. They can be used online / offline on any device. Lifetime access.



Lab Environment



Each student has their own lab environment where the exercises take place, part of the course. You do not need to install software on a computer or special hardware requirements.

Participants in a face-to-face format in our Training Center have an individual computer during the training.

At Course Completion

	
Lifetime Access - Video Archive 24/7	Certificate of Course Completion

Lifetime access to a video archive with recording of each individual lecture.

Official internationally recognized certificate for completed training course.

Course Duration



- 5 working days (09:00 – 17:00)
or
40 h. training (theory and practice) in overtime with a duration of 4 weeks
Saturday and Sunday 10:00 – 14:00, 14:00 – 18:00, 18:00 – 22:00
Monday and Wednesday 19:00 – 23:00
Tuesday and Thursday 19:00 – 23:00
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Payment



[For this course you can use and pay with Microsoft Software Assurance Training Vouchers](#)

An application for an invoice is accepted at the time of enrollment in the respective course.

An invoice is issued within 7 days of confirming the payment.

Next Class



Mar 25

25 March 2024 @ 09:00 - 28 March 2024 @ 17:00 EET ~

[AZ-801T00: Configuring Windows Server Hybrid Advanced Services](#)

Apr 1

1 April 2024 @ 09:00 - 4 April 2024 @ 17:00 EEST ~

[AZ-800T00: Administering Windows Server Hybrid Core Infrastructure](#)

Apr 22

22 April 2024 @ 09:00 - 25 April 2024 @ 17:00 EEST ~

[AZ-801T00: Configuring Windows Server Hybrid Advanced Services](#)



May 6

6 May 2024 @ 09:00 - 9 May 2024 @ 17:00 EEST ↻

AZ-800T00: Administering Windows Server Hybrid Core Infrastructure

May 27

27 May 2024 @ 09:00 - 30 May 2024 @ 17:00 EEST ↻

AZ-801T00: Configuring Windows Server Hybrid Advanced Services

[View Calendar](#)

For more information, use the contact form.

We will contact you to confirm the dates.

Prerequisites

- Candidates for this course have good Windows client and server operating system knowledge and basic AD DS and networking experience in an enterprise/small business (SMB) environment together with application configuration experience.

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- A good understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) fundamentals and networking concepts.
- A good working knowledge of both Windows Server 2012 R2 and Active Directory® Domain Services (AD DS). For example, domain user accounts, domain vs. local user accounts, user profiles, and group membership.
- A good understanding of both scripts and batch files.

- A solid understanding of security concepts, such as authentication and authorization.
- Familiarity with deployment, packaging, and imaging tools.
- Ability to work in a team/virtual team.
- Ability to produce good documentation and have the appropriate communication skills to create proposals and make budget recommendations.
- Knowledge equivalent to Windows 2012 R2 MCSA.

Students who attend this training can meet the prerequisites by attending the following courses, or obtaining equivalent knowledge and skills:

- 20410D: Installing and Configuring Windows Server 2012
- 20411D: Administering Windows Server 2012
- 20412D: Configuring Advanced Windows Server 2012 Services

OR

- 20417D: Upgrading Your Skills to MCSA Windows Server 2012

The course prepares for the following certification levels

**. 70 - 413 Designing and
Implementing a Server
Infrastructure**

- [You can be certified in our test center with a voucher with a discount on the price of the exam.](#)