

Unit 132: Designing Messaging Solutions with Microsoft Exchange Server 2007 (70-237)

Unit code: M/600/4235

QCF Level 4: BTEC Higher National

Credit value: 10

Guided learning hours: 54

● **Aim and purpose**

This unit aims to provide learners with the skills and understanding needed to design messaging solutions using the Microsoft Exchange 2007 server.

● **Unit introduction**

This unit is a comprehensive exploration of the core principles of Microsoft Server technologies; this is one of the many units in the Microsoft Information Technology professional study pathway, leading to the MCITP qualification. This unit focuses on the design and planning of messaging technologies using the Microsoft Exchange 2007 server.

The unit covers networking sector skills and knowledge that an ICT networking expert would need to successfully complete their work. In particular, learners will be taught how to design and plan the configuration of an exchange server, using a range of messaging technologies.

This unit involves hands-on, lab-oriented activities that stresses laboratory safety and working effectively in a group environment. Theory aspects are studied and tested online using Microsoft's own electronic curriculum which learners may also access from home. The unit is delivered through a blended learning approach where tutor-led teaching is combined with the electronic materials and testing.

This unit is assessed via the Designing Messaging Solutions with Microsoft Exchange Server 2007 (70-237) online examination.

● **Learning outcomes**

On completion of this unit a learner should:

- 1 design and plan messaging services
- 2 design and plan server high availability
- 3 design and plan coexistence and migration
- 4 define policies and security procedures

Unit content in relation to the Merit and Distinction Criteria

Mail server environment: types eg large corporation, sme, web based, mobile, client based; topology; active directory configuration; business factors; network topology; routing requirements; performance

Messaging environment: upgrades and migration; high availability

Current standards: mail server standards; security compliance; server availability

High availability: client eg type, load; issue management eg virus mitigation, spam mitigation; disaster recovery

Security policy: legal requirements; regulatory requirements; message content filtering; secure messaging

Assessment and grading criteria

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria for a pass grade describe the level of achievement required to pass this unit.

Assessment and grading criteria		
To achieve a pass grade the evidence must show that the learner is able to:	To achieve a merit grade the evidence must show that, in addition to the pass criteria, the learner is able to:	To achieve a distinction grade the evidence must show that, in addition to the pass and merit criteria, the learner is able to:
Pass Designing Messaging Solutions with Microsoft Exchange Server 2007 (70-237) The centre will evidence this with a copy of the learners results, the learner MUST PASS at the minimum set by Microsoft.	M1 Evaluate the operation and performance of an existing mail server environment	D1 Justify a messaging environment design against current standards
	M2 Design a messaging environment to meet a given specification	D2 Evaluate the effectiveness of the high availability solution
	M3 Design a high availability solution for a messaging environment	D3 Justify the implementation of a security policy

Guidance

Delivery

Designing Messaging Solutions with Microsoft Exchange Server 2007 (70-237) is a proprietary certification within the Microsoft IT academy programme. Access to resources, curriculum, assessment and support materials are available only to institutions participating in the program.

If learners are following the Microsoft certification in parallel with a BTEC National or Higher National unit then it is recommended that the two aspects of the assessment are integrated. Tasks being completed as part of the practical preparation for Microsoft Certification can then be used to support the BTEC assessment for the merit and distinction criteria.

To view general information about Microsoft objectives please visit:
<https://www.microsoft.com/education/MSITAcademy/default.aspx> where the detailed scope and sequence for all certifications are available for anyone to download.

Links to National Occupational Standards, other BTEC units, other BTEC qualifications and other relevant units and qualifications

The learning outcomes associated with this unit are closely linked with:

Level 3	Level 4	Level 5
Unit 5: Managing Networks	Unit 2: Computer Systems	Unit 36: Internet Server Management
Unit 9: Computer Networks	Unit 24: Networking Technologies	Unit 43: Networking Infrastructure
Unit 32: Network Systems Security	Unit 27: Network Operating Systems	Unit 44: Local Area Network Technologies
All level 3, Microsoft IT professional units	All level 4, Microsoft IT professional units	Unit 46: Network Security
		Unit 47: IT Virtualisation
		All level 5, Microsoft IT professional units

This unit has links to the Level 4 and Level 5 National Occupational Standards for IT and Telecoms Professionals, particularly the areas of competence of:

- 1 IT/Technology Infrastructure Design and Planning
- 2 Systems Development
- 3 IT/ Technology Service Operations and Event Management
- 4 IT/Technology Management and Support
- 5 Change and Release Management.

Essential Requirements

Learners must have access to a live or 'detached' network environment to create the network server infrastructure and develop their skills; this may be successfully accomplished using virtual machines.

Learners must have access to facilities, which allow them the opportunity to fully evidence all the criteria of the unit. If this cannot be guaranteed then centres should not attempt to deliver this unit.

Evaluation of current systems and solutions, commercial practices, social conditions and the culture surrounding the system in use is of as much importance as delivering work supporting potential understanding of the technological systems and the services they offer.

Learners must have access to a range of suitable hardware, as it is important to undertake as many practical activities as possible to reinforce theoretical learning. There are many virtual, emulated and simulated systems that now support delivery.

Resources

Books

Microsoft in association with their many partners produce a range of books on the topics in this module. Please refer to the Microsoft Academy resource for the latest information.

Websites

www.microsoft.com

www.microsoft.com/education/msitacademy/default.aspx

Employer engagement and vocational contexts

The Microsoft ITP certification is internationally recognized by a diverse range of employers (from SME's to large corporations) as one of the principal certifications in server deployment.