

COURSE OUTLINE

Section 1:

Course Title: Email Management

Course Code: CNET-2020

Course Description: The study of how to configure, manage, and secure a Microsoft Exchange Server

messaging environment. Students follow industry guidelines and best practices to optimize Exchange Server deployment. Alternative messaging technologies to

email are also investigated.

Grade Scheme: Pass/Fail Percentage Minimum Pass Mark: 70%

Course Value: Outcome hours OR 2 Credit(s) 45 (15 class + 30 lab)

Hours

Pre-requisites: CNET-2110 Active Directory Infrastructure

Co-requisites: NONE

Section 2:

Learning Outcomes and Competencies

Deploy Exchanger Server to meet business and technical requirements.

- 1.1 Identify the major components of an email system and explain their operation.
- 1.2 Identify email formats and protocols.
- 1.3 Install and configure Active Directory for use with Exchange server.
- 1.4 Plan Exchange Server roles.
- 1.5 Identify hardware requirements.
- 1.6 Use the appropriate method to install Exchange Server.
- 1.7 Use the Exchange Best Practices Analyzer to optimize installation.

2. Configure Exchange Server to meet enterprise messaging requirements.

- 2.1 Create, configure, and manage mailboxes to meet business requirements.
- 2.2 Create and configure mail users and mail contacts.

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- 2.3 Create and manage address lists.
- 2.4 Configure email address policies.
- 2.5 Create and configure public folders.
- 2.6 Configure client access protocols.
- 2.7 Configure the simple mail transfer protocol (SMTP).
- 2.8 Configure transport rules.
- 2.9 Determine laws affecting e-mail archiving and the implications for storage requirements.
- 2.10 Explain unified messaging.
- 2.11 Configure unified messaging support.

3. Secure Exchange Server and its messaging services.

- 3.1 Describe common security vulnerabilities and how to mitigate.
- 3.2 Configure antispam filters.
- 3.3 Configure antivirus protection.
- 3.4 Explain the use of SSL, TLS, and digital certificates in email security.
- 3.5 Configure SSL and TLS protocol support.
- 3.6 Configure email encryption.
- 3.7 Backup and restore Exchange Server databases.
- 3.8 Restore mailboxes and emails.
- 3.9 Restore Exchange Server roles.
- 3.10 Repair Exchange Server databases.

4. Monitor Exchange server to maintain optimal functionality.

- 4.1 Monitor server performance using system tools.
- 4.2 Monitor server performance using Exchange Server tools.
- 4.3 Monitor email queues.
- 4.4 Monitor client connectivity performance.

5. Implement support for mobile access to meet business requirements.

- 5.1 Describe mobile access technologies.
- 5.2 Configure email servers to support mobile devices.
- 5.3 Explain push email.
- 5.4 Implement and configure push email.

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- 6. Investigate alternatives to on-premise email for electronic messaging.
 - 6.1 Explain the advantages and disadvantages of using externally hosted email solutions instead of on-premise (in-house) deployment.
 - 6.2 Explain the advantages and disadvantages of using instant messaging (IM) for enterprise messaging.
 - 6.3 Research emerging communications technologies.

Section 3: **Assessment Categories:** Theory Tests and Exams 30% Labs and Assignments 30% **Projects** 30% Professionalism 10% ☐ Yes 🖂 No **Research Component?** Section 4: (For administrative use only) 🗌 Yes 🔀 No Is this course new? ☐ Yes 🖂 No Is this course replacing an existing course(s)? If this course is replacing another, please record the name and code of the old course: Course equivalents: NONE Note: See Quality Procedure A01 for more details. Catalog Year of Original Course Implementation: 2011 Catalog Year of Current Version Implementation: 2015 **Revision level:** 3 Version: 2 **Date:** Nov/2014 Authorized by: mlgj Accreditation and or Supporting National Technology Benchmarks: Canadian Council of Technicians & Technologists; Discipline: Information Technology; Level: Technologist **Documents:** Additional Information: None

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Approved by: (Program Manager)

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