THE SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO
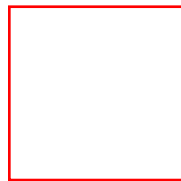
Course Outline

COURSE TITLE:	Fundamentals NT / 2000 Server
CODE NO.:	OEL 838
PROGRAM:	E - Commerce WebMaster Certificate
AUTHOR:	Professor Dan Kachur
DATE:	August/02

APPROVED:	_____	_____
	DEAN	**DATE**

TOTAL CREDITS:	3 credits
PREREQUISITE (S):	Computer Awareness
COURSE DURATION:	14 Weeks

I. COURSE DESCRIPTION:

Students will be able to perform daily operations of administering a network server for Web Mastering purposes. Students will become familiar with the concepts of adding users and groups to the server. As a follow-up, directory and file creation will be explored including the ability to learn security using shares, directories and file permissions. Auditing at the directory and file level will be learned for the purpose of monitoring user activity and potential intruder access. Printing services, data backups, and disaster recovery planning are explored.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1.   Understand Networks

   Potential Elements of Performance:

   - Summarize the role of network operating systems.
   - Identify various network operating systems.
   - Identify the hardware and software components of a network.
   - Differentiate between client and server.
   - Identify various types of networking topologies.
   - Summarize and identify various network protocols.

2.   Partition and Install NT / 2000

   Potential Elements of Performance:

   - Identify partitions and partition types.
   - Determine the number of partitions available in a hard drive.
   - Identify Windows NT / 2000 Server file types.
   - Differentiate between a Windows 9x partition and Windows NT Server partition.
   - Identify the start-up file for a Windows NT server and 2000 server install.
   - Contrast NTFS Version 4 and NTFS Version 5.
   - Determine the benefits of NTFS.

3.   Administer Windows NT Server Users / Groups

   Potential Elements of Performance:

   - Explore User Manager for domains.
   - Learn how to create user accounts then add them to groups.
   - Learn the concepts of creating local and global groups.
   - Learn how to set logon security for user accounts.
   - Learn the concepts of user rights.

4.   Administer NT Share, Directory and File Security

   Potential Elements of Performance:

   - Identify the components of shares and permissions.
   - Contrast the difference between a share and permission.
   - Identify the four levels of security in a share.
   - Identify the nine levels of security in a directory permission.
   - Identify the five levels of security in a file permission.
   - Calculate accumulated permissions.

5.   Administer Windows 2000 Server Users / Groups

   Potential Elements of Performance:

   - Explore Windows 2000 Server "Computer Management".
   - Identify the role of active directory.
   - Learn how to create users and groups in non-active directory and active directory modes.
   - Learn how to set security for user accounts.
   - Visualize the creation of user accounts in both active directory and non-active directory modes.
   - Learn to configure account security policies.
   - Identify three ways administrators manage domain resources.
   - Explore local, domain local, global, and universal group types.
   - Identify the 24 groups of Windows 2000 server.
   - Visualize the creation of groups.

6.   Administer Windows 2000 Server Share, Directory, and File Security.

Potential Elements of Performance:

- Identify components of Shares and Permissions for Windows 2000 Server.
- Contrast native mode versus mixed mode.
- Identify the three levels of security in a share.
- Identify the six general level folder permissions.
- Identify the 13 special permissions of a folder.
- Identify the six general levels permissions of a file.
- Identify the 13 special permissions of a file.
- Calculate accumulated permissions.

7.   Audit

Potential Elements of the Performance:

- Learn the purpose of auditing.
- Understand the three components involved in auditing.
- Explore how to use Event Viewer and analyze results.
- Learn how to trigger auditing.
- Learn how to review auditing results using Event Viewer.

8.   Manage Print Services in a Network Environment

Potential Elements of the Performance:

- Become familiar with printer terminology.
- Identify the various printer types available in a network environment.
- Learn how to install and configure printing services for NT and 2000 Server.
- Identify print services security levels.
- Identify the purpose of Separator pages (.sep files.)
- Visualize how a client can connect to a network printer.
- Learn how to manage print jobs.

9.   Create Backup Strategies and Disaster Recovery Plans

Potential Elements of the Performance:

- Identify the various backup types.
- Explain how to schedule backups.
- Identify the steps in data restoration.
- Research backup strategies for data transferred to off-site locations.
- Research disaster recovery methods.
- Research successful Data Restoration following the September 11th, 2001 NYC aftermath.

III.   REQUIRED RESOURCES/TEXTS/MATERIALS:

Title: MCSE Guide to Microsoft Windows 2000 Server
Certification Edition
Author: Palmer, Kammerling, Marky, Stewart, Kezema
Publisher: Course Technology (Thomson Learning),
2nd Edition
ISBN: 0619186836

IV.   EVALUATION PROCESS/GRADING SYSTEM:

1 Mid-term Test (on-line) - **30%**
1 Final Written Test (proctored) - **30%**
Quizzes/Tests and Assignments - **40%**

The percentages shown above may vary slightly if circumstances warrant.

Minimum passing grade at Sault College is **50%**. Your final grade will be assigned as a percentage. Your home college will determine the letter grade.

V.   SPECIAL NOTES:

[Special Needs]:
If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493, 717, or 491 so that support services can be arranged for you.

Retention of Course Outlines:
It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at [Student's Rights and Responsibilities] other postsecondary institutions.

Plagiarism:
Students should refer to the definition of "academic dishonesty" in *Student's Rights and Responsibilities*. Students who engage in "academic dishonesty" will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course Outline Amendments:
The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

VI.   PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

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