

Inver Hills Community College

ITC 2430: Installation, Storage, and Compute with Windows

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites:

ITC 1400 - IT Fundamentals

Corequisites: None

MnTC Goals: None

Provides students with the skills and knowledge needed to implement a core Windows Server infrastructure in an enterprise environment. The course covers topics on implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server environment including server storage, high availability, containers, and Hyper-V configuration.

B. COURSE EFFECTIVE DATES: 08/26/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Install Windows Servers in host and compute environments (15%)
2. Implement storage solutions (15%)
3. Configure Hyper-V (20%)
4. Implement and manage Windows containers (10%)
5. Implement high availability (30%)
6. Maintain and monitor server environments (10%)

D. LEARNING OUTCOMES (General)

1. Install, upgrade, and migrate servers and workloads.
2. Install and configure Nano Server.
3. Create, manage, and maintain images for deployment.
4. Configure disks and volumes and implement server storage and data deduplication.
5. Install and configure Hyper-V and VM settings.
6. Configure Hyper-V storage
7. Configure Hyper-V networking
8. Deploy and manage Windows containers using PowerShell.
9. Implement high availability and disaster recovery options in Hyper-V.
10. Implement and manage failover clustering.
11. Manage VM movement in clustered nodes.
12. Implement Network Load Balancing (NLB).
13. Maintain and monitor server installations
14. Students will practice business soft skills including written, active listening, and oral presentation.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted