

# Course Outcome Guide (COG)

Approved 13 September 2012

<b>Course:</b>	CIS 216 – Implementing a Microsoft Windows Network Infrastructure	<b>Credits:</b>	3	<b>Instructor:</b>	TBD
<b>Course Description:</b>	This course is for professionals who will be responsible for configuring, managing, and troubleshooting a network infrastructure that uses the Microsoft Windows Server products. These tasks include the following: Implementing routing Implementing, managing, and maintaining Dynamic Host Configuration Protocol (DHCP) Domain Name System (DNS) Windows Internet Name Service (WINS) Implementing a network access infrastructure by configuring the connections for remote access clients.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
Active Directory Users Groups Profiles Group Types Access Issues Passwords Security Updates File Systems Network Printing File Compression Task Manager Backup	Install the current version of the Windows Workstation Operating System.  Identify Active Directory Logical Components and Infrastructure  Create and manage Organizational Units.  Create and manage user accounts including user profiles.  Create and use groups to manage access to resources.  Implement and manage file system access security.  Implement advanced file system management	<ul style="list-style-type: none"> <li>• Participation</li> <li>• Case studies</li> <li>• Network Simulations</li> <li>• Individual and group projects</li> <li>• Individual/group projects and presentations</li> <li>• Completion of Chapter Assessments</li> <li>• Final Assessment</li> <li>• Skills-Based Assessment</li> </ul> Course Feedback	On completion of this course the student should be able to design, install, configure and manage a workgroup or domain consisting of Microsoft Windows servers and workstations.	<ol style="list-style-type: none"> <li>1. Assemble the components of a PC and install one or more operating systems resulting in a functioning PC.</li> <li>2. Identify major telecommunications media types, including coaxial cable, UTP and fiber optic cable.</li> <li>3. Design a small or medium sized computer network including media types, end devices and interconnecting devices.</li> <li>4. Design basic wide area networks and work with a</li> </ol>	<ol style="list-style-type: none"> <li>1. Students will demonstrate effective communication skills.</li> <li>2. Students will use reasoning skills to analyze and solve problems.</li> </ol>

	<p>techniques.</p> <p>Implement and manage network printing resources.</p> <p>Implement resource access auditing.</p> <p>Monitor system performance.</p> <p>Manage and Implement Backups and Disaster Recovery</p>			<p>number of WAN encapsulations.</p> <ol style="list-style-type: none"><li>5. Perform basic configuration on routers and Ethernet switches.</li><li>6. Perform basic tasks expected of a Network Administrator, including management of user accounts, shared resources and network security.</li><li>7. Work in a UNIX environment and successfully create and manage files.</li><li>8. Create a database, query a database, and output reports from a database in a database program.</li><li>9. Write a sample program in at least one programming language.</li><li>10. Effectively use the Internet for learning and tech support.</li><li>11. Have a basic understanding of</li></ol>	
--	--	--	--	---	--

				TCP/IP.	
--	--	--	--	---------	--