Occupational Code: EIS HNS3

2. EIS HNS3 05 0811 Monitor and Administer System and Network Security
3. EIS HNS3 06 0811 Provide First Level Remote Help Desk Support
4. EIS HNS3 07 0811 Identify and Resolve Network Problems
5. EIS HNS3 09 0811 Conduct / Facilitate User Training
6. EIS HNS3 10 0811 ApplyQuality Control
7. EIS HNS3 12 0811 Lead Workplace Communication

Instruction: This project involves the installation and configuration of Server and Client Operating Systems and managing a network. The project has three tasks.

Task I: Installation of Server Operating System and Configuring Network

1. Make ready the given computers for new Operating System installation and configuration.
2. Format, Create two partitions and Install Windows Server 2008 Operating System on one of the two computers.
3. Format,Create partition **(C:\ 50% and D:\ 50%)**and Install Microsoft Windows 7 Operating System on the **local disk D:**\on the other computer.
4. Install the necessary device drivers for all computers.
5. Use the following name for the computers:
   a. Server Computer :**DC1**
   b. Client Computer :**Computer1**
6. Install Microsoft Office 2007 on the client computer.
7. Give the following IP address range manually (10.20.0.1 – 10.20.0.10) with Class A subnet mask.
8. Test the connection between the server and the client computers using connection testing commands

Task II: Configuring Microsoft Windows Server 2008

1. Install Active directory on the server computer and create a domain called **Entoto.edu**
2. Install and Configure DNS.
3. Test the DNS server configuration by using **NSLOOKUP**command to convert **IPaddress** to **Hostname** and vice versa.
4. Create two Organizational Unit (OUs) called**Academic** and **Admin**.
5. Join the client computer to the domain

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Create two groups **Academic_Group** under Academic OU and **Admin_Group** under **Admin**OU.

7. Create the following users on the appropriate Groups and OUs

Employee Name	Group Name	OU	Logon name	Password
SenaitAbebe	Academic_group	Academic	seA	!@#@123
Marta Lema	Academic_group	Academic	maL	!@#@456
HananYasin	Admin_group	Admin	haY	!@#@012
Gedeybirhan	Admin_group	Admin	geB	!@#@789

8. Set **Senait's** Account always log on to computer1
9. Set **Marta's** password to change at first logon
10. Configure the Server to be accessed remotely and demonstrate it by logging from the client computer.
11. Create the following directory **C:\Academic** on server. This folder should be accessed by the **Academicgroup** users only.

Task III: Conduct / Facilitate User Training

Prepare a training presentation (Using Microsoft Office Power Point) for end users on how to use the client-server based network infrastructure you created above. Your presentation may include but not limited to

Note: Include sample Screen shoots

- Steps on logon procedures to the domain from the client PC
- How to Access shared resources from the network
- Security related Issues on using the computers
- First step troubleshooting Tips incase of failure to logon

Save the presentation on the desktop by the name Entoto.

Project 2: Determining best-fit Topology and Designing Network Infrastructure

Total time for the project: 1:00 hour

Unit of competencies covered:

1. EIS HNS3 01 0811 Gather Data on Business Requirements
2. EIS HNS3 02 0811 Determine Best-Fit Topology
3. EIS HNS3 04 0811 Create Technical Documentation
4. EIS HNS3 08 0811 Monitor Implementer[illegible] Workplan/Activities

cupational Code: EIS HNS3

Instruction: This project involves gathering business requirement, identifying required resources, Designing the best fit topology and preparing implementation Plan of Local Area Network (LAN).

Project Information

You have a work agreement with **Entoto Poly Technic College** to Design the network infrastructure and identify the required equipment for the new computer laboratory. The room size for the laboratory is 50 square meters.

Requirements for the laboratory:

- The laboratory should serve 20trainees a time
- The trainees need to get Internet access and printing service
- Your proposal should be cost effective
- Your proposal should apply quality standards in ICT

Under this project you are expected to perform the following tasks on Microsoft excel 2007 based on the information provided above. Save it by the name **Requirement** on the desktop.

1. Identify the required components and equipment to set up the LAN
2. Identify and propose best fit topology based on the requirement
3. Propose connection mechanism to get Internet access from the service provider(Ethio-Telecom)
4. Prepare an implementation plan by identifying major activities and the required time to complete the network (Assume you have provided all the required components and equipments by the institute).
5. Design the physical topology of the network diagrammatically. Your diagram should display all components used on the network.

[redacted]