



Candidate Instructions

Assignment - 408 Version 1.1

Networking- Level 2

Assignment 7262-24-408

Networking Level 2

Candidates are advised to read all instructions carefully before starting work and to check with your assessor, if necessary, to ensure that you have fully understood what is required.

You must, at all times, observe all relevant Health and Safety precautions.

Time allowed 4 hours

Suggested times

Task A – 3 hours

Task B – 1 hour

Introduction

This assignment is broken down into 3 parts:

1. A brief scenario is provided.
2. Task A requires candidates to set up, configure and test a peer to peer network consisting of two computers.
3. Task B requires candidates to manage user accounts on a network.

Scenario

A company, Sigma Networks provide installation and technical support services for client's networks. They receive requests from clients for network installation and maintenance and support services. Employees are then sent out to a client's site to provide the service required.

Two jobs have been assigned to you.

- A. Proton Printing a small print service company, using two standalone computers, require a network to be set up to allow them to backup their daily work quickly and easily at the end of the day. Your manager has decided that a peer-to-peer network would satisfy this requirement and has asked you to visit the company and set up the network.
- B. A new LAN has just been installed for Axiom Marketing a small market research company. The user accounts must now be set up. Your manager has asked you to visit the company and set up the user accounts.

Task A – Suggested time 3 hours

In this task you are required to connect two computers in a peer-to-peer network and undertake some file and print operations on the network.

You are permitted to use manufacturer's manuals and/or tutor notes.

1. Produce the following planning information for the hardware and software requirements of the network:
 - a. the name of the operating system, or the software producer
 - b. cable type(s) and connectors required
 - c. network interface card type and speed
 - d. type of hub (if required)
 - e. software required (e.g. NOS, drivers, etc.).Label this PLANNING.

2. Use appropriate tools and safety/protection equipment to:
 - a. disconnect the computers from the power supply
 - b. remove their covers
 - c. install the network cards into the computers
 - d. make any required connections and configuration changes.

3. Ask your assessor to check the safety of your installation.
After approval:
 - a. replace the covers
 - b. connect the computers to the power supply and switch them on
 - c. if the network interface card uses software for set-up, use the supplier's software to configure the network interface cards.

4. Install and configure the appropriate components to allow the computers to be connected in a peer to peer network including:
 - a. setting up the protocols
 - b. shared resources for
 - printing
 - file access.

5. Set up appropriate computer names for both computers.
Ask your assessor to verify your actions.

6. Switch off both computers.
Connect the two computers to form a peer to peer network.
Switch on both machines and verify that they operate correctly.

7. Configure the computers to access resources:
 - a. allow full access to all users to the hard drive on both computers
 - b. share the printer and give it a share name to include the printer's make or unique identifier.Demonstrate to the test supervisor the operation of the network components (i.e. to show hard drive and printer access over the network).

8. Test the functionality of the network file system:
 - a. log on to the computer which does not have the printer attached
 - b. create a directory/folder on the other computer
 - c. create a text file with your name in the first line of the text
 - d. save the text file with the filename *yourname.txt* in the directory/folder that you created on the other computer
 - e. test access to the printer by printing the text file created in d. Label this printout PRINTOUT1
 - f. write down, on PRINTOUT1, the names of the directory/folder and file that you created
 - g. log off the computer.

9. Some simple faults or errors may prevent a network from functioning correctly. From your knowledge of common faults, write down THREE possible faults that could occur. Label this FAULTS.

Task B – Suggested time 1 hour

In this task you are required to plan for and set up user accounts for the network for Axiom Marketing.

The company employs 20 permanent members of staff and has a total workforce of 40. They all work on a 9am-5pm basis.

Some employees are temporary and may only work for the company for very short periods of up to a maximum of 4 months. This temporary status must be reflected in the usernames and accounts.

Each employee requires a secure home folder and a user account.

You should use the word 'password' whenever you need to set up user passwords during this task.

1. Develop a naming convention that will accommodate all employees, taking into account the possibility of duplicate names and the requirements for temporary staff.
2. Produce a list of 10 example names and their respective usernames including two examples for temporary staff. Label this USERNAMES.
3. Write down, on USERNAMES, the location of the home folders and justify your reasons for using this location.
4. On the computer network log on as administrator.
5. Create FIVE new user accounts and home folders, using names from your list. These should be for permanent members of staff.
6. Create TWO new user accounts and home folders for temporary staff, using details from your list. These members of staff are on three month fixed contracts from today. Their accounts should reflect this restriction.
7. Provide printouts of the user accounts created and label these PRINTOUT2.
8. Log off the network.

Note

- At the conclusion of this assignment, hand all paperwork to the test supervisor.
- Ensure that your name is on all documentation.
- If the assignment is taken over more than one period, all paperwork must be returned to the test supervisor at the end of each sitting.