

PENANG SANGAM HIGH SCHOOL
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LESSON NOTES 15

Year/Level: 12 Subjects: Computer Studies

<u>Strand:</u>	Computer and Applications
<u>Sub-strand:</u>	CE 12.1.5 Communications and Networks
<u>Content Learning Outcome:</u>	❖ Some careers in this field

Lesson Notes

Some careers in this field

Network administrators

- ❖ Oversee the computers in the company's system.
- ❖ They manage and ensure the network runs smoothly and uninterrupted.
- ❖ They connect all hardware and software and set up all programs, such as everyone's email, to the computer system.
- ❖ They work with individual users, troubleshoot crashes and slow performance and are responsible for developing an emergency back-up system to preserve essential data.
- ❖ They must record all system errors and how they were repaired.
- ❖ They must also set up security measures to keep unauthorized users from accessing company files.

Network systems engineers

- ❖ Are responsible for setting up the network infrastructure the administrator oversees.
- ❖ Engineers maintain and watch over the security systems the administrator set up, and work with them to develop firewalls and back-up systems to the main network server.
- ❖ Engineers are responsible for the configuration of the network, maintaining all the equipment and logging any maintenance performed.
- ❖ The engineer is the fine tuner to the network system

Network computer programmers

- ❖ Are administrative-style jobs that create and design critical data structures for each computer
- ❖ They analyse the system's software requirements, develop new applications and maintain existing ones.
- ❖ They are there from start to finish on all computer applications.
- ❖ They literally tell the computer what to do and how to grasp the information given.
- ❖ The programmer must meet all system standards, creating the proper codes and communicate well with perfect understanding.
- ❖ Programmers must also have exemplary presentation skills.

Network systems managers

- ❖ Guide, manage and supervise the entire Internet and computer operation.
- ❖ Managers are in charge of the workplace, assign projects and programs to their employees and give reports to upper management.
- ❖ They are responsible for each department in the operation to include many programmers, analysts and technologists.
- ❖ They must be educated in every area of the computer network system.
- ❖ Managers must ensure the availability of each department's equipment, order and allocate resources as necessary and be familiar with industry developments and more

Network service technicians

- ❖ Identify and fix network troubles
- ❖ They troubleshoot components and hardware such as coaxial and fiber-optic cables
- ❖ They must have extensive knowledge in Internet connections and in linking computers within a network
- ❖ They plan and analyse cost for the company's computer network system and determine correct layouts, configurations and connection devices
- ❖ They must be abreast on modern terminology and be able to resolve any problem within the computer system

Essay Question

A network strategy describes how resources and information are coordinated and shared.

With reference to the above statement, discuss

- ❖ Four common network strategies
- ❖ Use diagrams to support the discussion.
- ❖ One advantage of any two networks.
- ❖ One disadvantage of any network.