



Learning Guide Unit 2

Overview

The Physical Layer

Topics

- Bandwidth and maximum data rate
- Guided Media
- Unguided Media
- Satellite Communication
- Digital Multiplexing and Modulation
- Ethernet

Learning Objectives

- Describe the term "crosstalk" with respect to wire pairs.
- Examine reasons for the use of different frequencies in up and down downlinks satellite communications.
- Differentiate between Circuit Switching and Packet Switching techniques.
- Explain advantages of CRC checksum placement in the frame trailer versus in the frame header.

Checklist

- Peer-assess Unit 1 Assignment
- Read through the Learning Guide and the Reading Assignment
- Complete the Discussion Assignment by posting in the Discussion Forum
- Respond to and rate three of your fellow classmates' posts in the Discussion Forum
- Complete and submit the Written Assignment
- Complete and submit the Learning Journal
- Take and submit the Self-Quiz



