## SUBJECT:

## **COMPUTER TECHNOLOGY**

#### **OBJECTIVE(S)**

For candidates to obtain the knowledge and understanding of how computers operate, components and peripherals.

## PREREQUISITES

None.

## **INSTRUCTORS/EVALUATORS**

- Teachers responsible for computer education
- Computer technologists

## **REFERENCES AND MATERIALS**

- Internet sites
- Technical manuals
- Manufacturers' promotional materials
- Instructional CD ROMS, cassettes, and videos
- Trade publications/magazines

## CONTENT

- 1. Give a short history of the evolution of computer hardware.
- 2. Describe the major parts of a computer system.
- 3. Identify five major companies that manufacture computer hardware.
- 4. Describe three means by which computers can exchange data with other computers.
- 5. Do the following:
  - Visit a business or industry that uses computers. Study what the computer hardware accomplishes and be prepared to discuss what you observed;
  - Identify five jobs in the computer hardware field and discuss briefly what each one does.

- 6. Be prepared to discuss several terms used in each of the following categories:
  - Input/output devices
  - Storage media
  - Memory
  - Processors and co-processors
  - Modems
  - Networks
  - Robotics
- 7. Define *15* of the following terminology:
  - Baud
  - Boot
  - Byte
  - Č.
  - CD-ROM (compact Disc Read-Only Memory)
  - CPU (Central Processing Unit)
  - Dot matrix
  - DPI (dots per inch)
  - GB (Gigabyte)
  - Interrupt
  - Java
  - LAN (Local-area network)
  - Laser printer
  - Low level or Machine code
  - Magnetic memory

- Mainframe
- MIPS (Millions of Instructions Per Second)
- Modem (Modulator Demodulator)
- Mother Board
- Optical storage
- Pixel
- Plotter
- QWERTY
- RAM (Random-Access Memory)
- ROM (Read-Only-Memory)
- Scanner
- Source Code
- WAN (Wide-area Network)
- Web/www
- WORM device (Write Once Read Many)

## Written Test

- 8. Choose one of the following "projects" and submit it to the Instructor/Evaluator for assessment:
  - A futuristic view of the use of computer hardware in our society.
  - Other approved topic by the Instructor/Evaluator.

## **DURATION**

No set time.

## CERTIFICATION

The Instructor/Evaluator must be satisfied that the candidate has acquired an appropriate level of knowledge and skill.

# **CERTIFICATION OF SUCCESSFUL COMPLETION OF PROFICIENCY SUBJECT**

COMPUTER TECHNOLOGY

Instructors/Evaluators should carefully consider the age, ability and accessibility to resource materials of each candidate.

The candidate has completed the above co satisfaction of the Instructor/Evaluator.	ntent and meets the requirements to th
Name of Instructor/Evaluator:	
Agency:	
Address:	Tel #:
Instructor qualifications:	
I certify that	
	of
(candidate's name)	(Division #)
meets the criteria of this proficiency subjec	ct, as laid out on the previous page(s).
meets the criteria of this proficiency subject	ct, as laid out on the previous page(s).