

# Computer Maintenance and Upgrading (10-assignment)



This is an integrated instructional module designed specifically to operate within a Modular Program environment. It is ideal for use with our Scantek Technology or IT2020 Information Technology programs. The module includes a 10-assignment exploratory curriculum that is split into two parts. Each part includes a pre-test and post test. The module includes software and curriculum materials sufficient to provide a complete learning experience.

The curriculum incorporates continuous assessment through questions. When used in conjunction with a ClassAct networked management system, this provides instant feedback of student performance. The assessments begin with a comprehensive pre-test. This quiz includes questions for each subsequent assignment, together with questions that will specifically test math and reading ability.

Every assignment starts with a series of questions designed to track inventory. These ensure that any missing items are located before they are needed.

Each assignment is divided into a series of tasks. Hands-on tasks introduce students to computer maintenance and upgrading, and are accompanied by research tasks based upon illustrated textbooks and on-screen applications. Assessment questions are incorporated into each task.

**Exploratory Phase Topics:**

- Evolution and generations of computers
- Basic internal and external computer components
- Advanced internal and external computer components
- Disk drives
- Expanding the computer system
- Capturing text and images
- Printers
- Video conferencing
- ISDN
- TV and radio adapters
- Game devices
- Speech recognition
- Connectors
- Keyboards and pointing devices
- Computer cases
- CD-ROM and DVD technologies
- Installing devices
- Computer component selection

**Exploratory Phase Activities:**

- Exploring the evolution of computers.
- Awareness of computer hazards and safety.
- Backing-up and restoring data.
- Preventative maintenance methods.
- Connecting and installing a range of devices.
- Expanding the computer system.
- Exploring the uses of a range of components.
- Capturing text and images.
- Building a virtual computer system to meet new specifications.
- Investigating multimedia components.

Each assignment is designed around a list of performance objectives. These lists include academic, technical and occupational objectives. The assignments are written in such a way as to enable a student to attain the performance objectives, with the assessment questions linked to these in order to provide a measure of true competency.

The performance objectives are used by the ClassAct management system to generate a comprehensive portfolio of student competency reports. Default reports supplied with this module include:

- Entry report
- Technical/Occupational Exit report
- Basic Skills report based upon the federal SCAN's report.

**The items supplied with this instructional module include:**

- 10-assignment On-Screen Student Assignment Guide CD
- 10-assignment Student Workbook
- 10-assignment Instructor's Guide
- PC Upgrading and Troubleshooting Quicksteps textbook

**Additional items required:**

- Computer

**Module Facts**

For Technology Program, order as: ST660/10 Computer Maintenance and Upgrading

For IT Program, order as: ISS1E Computer Maintenance and Upgrading

	No.	Average time
Assignments	10	45 minutes
Extension Activities	2	60 minutes
<b>Total</b>		<b>9½ hours</b>



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