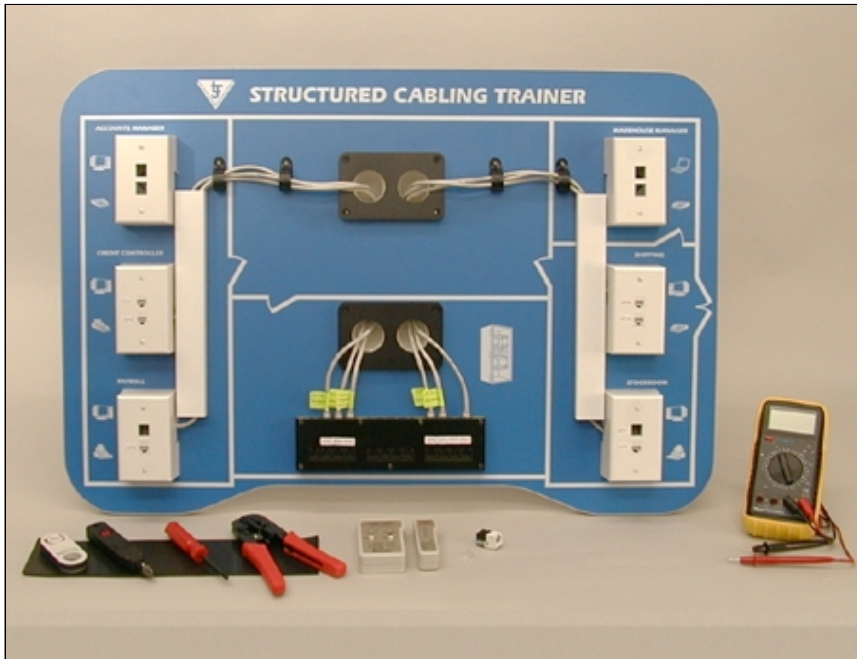


Investigating Networks (10-assignment)



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 hardware, 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 networking technology, and are accompanied by research tasks based upon illustrated textbooks and on-screen applications. Assessment questions are incorporated into each task.

Exploratory Phase Topics:

- Structured cabling systems
- Media types
- Connector types
- Cabling standards
- Cable termination tools
- Standard wiring patterns
- Network test equipment
- Connectivity testing
- Patch cable types
- Methods of cable termination
- Structured cabling standards for buildings
- Labeling cable systems
- Methods of pulling cables
- Faultfinding in cabling systems
- Network troubleshooting methodology
- Safe cabling practices
- Legal obligations when installing cabling
- Implementing structured cabling

Exploratory Phase Activities:

- Investigating elements of structured cabling systems.
- Terminating UTP cables.
- Cabling test tools and methods.
- Using patch cords and crossover cables.
- Locating faults in network connections.
- Comparing cable media.
- Installing horizontal cabling.
- Designing a cable labeling system.
- Pulling cables.
- Examining safe practices relating to structured cabling.
- Investigating the role of documentation in a structured cabling system.

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
- Reference Guide
- Structured Cabling Trainer
- Network cable, connectors, and tools.
- Digital multimeter
- UTP cable tester
- Pre-made UTP network cables
- Networking Simulation Software
- Theory Support Software

Additional items required:

- Computer

Module Facts

For Technology Program, order as:
ST680/10 Investigating Networks

For IT Program, order as:
NS5E Investigating Networks

	No.	Average time
Assignments	10	45 minutes
Extension Activities	2	60 minutes
Total		9½ hours



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