

CISCO Networking Academy
Lesson-by-Lesson Materials List:
Semester One

Chris Widmer
Regional Coordinator
High Technology H.S. Cisco Networking Academy
wid@hths.mcvsd.k12.nj.us

Lesson 1

Journal (Optional)

Lesson 3

Types of media - Have samples for students to see

Shielded twisted pairs

Unshielded twisted pairs

Coaxial

Fiber-Optic

Lesson 26

Journal (Required)

Lesson 28

Section of Category 1 unshielded twisted pair cable with UL markings visible

Section of Category 2 unshielded twisted pair cable with UL markings visible

Section of Category 3 100 ohm unshielded twisted pair with four pair and with UL markings visible

Section of Category 4 100 ohm unshielded twisted pair with four pair and with UL markings visible

Six meter long section of Category 5 100 ohm unshielded twisted pair with four pair and with UL markings visible

Three meter long section of Category 5 100 ohm unshielded twisted pair cable with four pair and with UL markings visible

Connector for 100 ohm unshielded twisted pair cable with four pair

Section of 150 ohm shielded twisted pair cable with two pair

Connector for 150 ohm shielded twisted pair cable with two pair

Section of 62.5/125 fiber-optic cable with two fibers

Connector for 62.5/125 fiber-optic cable with two fibers

Section of 50 ohm coaxial cable

Connector for 50 ohm coaxial cable

Lesson 34

Preprinted pieces of paper containing the following information:

Source Address: _____

Destination Address: _____

1 small box with a lid

2 waste baskets

Lesson 37

Equipment:

RJ45 jacks, sections of Category 5 UTP cable, adhesive-backed boxes for surface-mounting jacks, screw-mounted boxes for surface-mounting jacks, drills, stiff wire, boxes for flush-mounting jacks, tape measures, utility knives, keyhole or drywall saws, hammers and chisels, electric saws, safety glasses, low-voltage mounting brackets for flush-mounting jacks, punch tools, screw drivers, and tie-wraps for cable

Drill Bits - Wood/Masonry Bits

Level and Wall

Tape Measure (feet and meters)

Lesson 41

Equipment:

Enough spools of Category 5 UTP cable for 1 spool/5 students, safety glasses, tie-wraps, wire snips, fish tape, pull string, wire strippers, electrical tape, screw anchor, saws, utility knife, pencils, needle-nose pliers, telepole, gutter, decorative raceway, stiff wire, and electric drills.

Drill Bits - Wood/Masonry Bits

Lesson 44

Equipment:

Enough spools of Category 5 UTP cable for 1 spool/5 students, wire snips, wire strippers, cable tester, RJ45 jacks, patch panel, hub, needle-nose pliers, and punch tools.

Lesson 47

Compass and String

Hard copy of graphic for floor plan

Lesson 48

Compass or string cut to length

Overhead Projector

Transparency

Large Compass

Lesson 49

Compass and String

Lesson 54

Building plans provided by instructor

Blue ink pen or pencil

Red ink pen or pencil

Lesson 59

Questions in hard copy version

Lesson 68

Cat 3 UTP

Cat 4 UTP

Cat 5 UTP

Coaxial

Fiber

STP