

Telephony



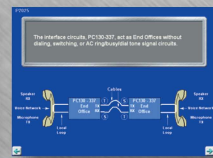
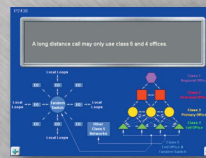
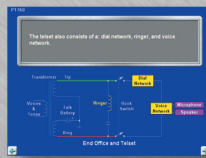
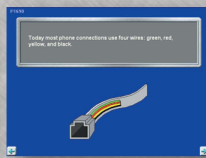
Making the Right Call

The telephone is probably the most common electronic device found in the world today. Try to remember a day that you did not use a telephone or hear that old familiar ring. Telephones are so much a part of our lives that most people take them for granted...until they don't work. Telephone systems have become so diversified that today's technicians find themselves installing and repairing many different types of local, long distance, global, and mobile telephone systems.

The E & L-Nida Telephony courseware prepares technicians for system level maintenance by integrating theoretical concepts with hands-on real-world applications. Developed from industry input and standards, the courseware teaches a broad spectrum of subjects from basic telephone equipment to complete telecommunications systems. The modular format of the E & L-Nida Telephony courseware allows you to provide your students with just the right material to fit your programme.

E & L-Nida Telephony

The E & L-Nida Telephony courseware introduces students to the broad field of telecommunications and provides an in-depth look at telephone circuits. When used with the Model 130E Test Console, the courseware provides experiments that use real telephone and communications circuitry to reinforce theoretical principles. Automatic faulting of circuit boards provides skills training in troubleshooting simple telephone systems. Telephone circuits can be combined with optional modulation, multiplexing, and transmission boards sets to create a working telephone system capable of connecting students across the classroom or across the campus.



Topics

Introduction to Communications Systems

Basic Elements, Limiting Factors, Bandwidth

Telephone Systems

Local Area, Local Loop, Long Distance
System Hierarchy

Telephone Equipment

Mechanical & Electronic Telephones
Local Loop, Signal Measurements

Telecommunications Careers

Types, Education Requirements, Certifications

Connection Links

Physical & Atmospheric Links, Attenuation, EMI
Metallic, Non-Metallic, & Fibre Optic Links
Radio, Microwave, & Satellite Links

Telecommunications History & Terminology

Innovators, Inventors, and Milestones
Terms, Acronyms, Jargon, Symbols, Charts

Networking Systems

Telecommunications Networks, Switching

Information Systems

LAN, WAN, & MAN Networks, IR & FR Wireless

Broadcast Systems

Types, Roles, Global Positioning Systems

Spread Spectrum Modulation

PN Sequence Generation, Synchronisation

Cellular Telephony

Structure, Multiplexing, Mobile vs. Cellular

Satellite Systems

Supporting Hardware

- Model 130E Test Console
- Model 1429 Digital Telephone Circuits Boards Set
- Model 4050 Test Instrument Module
- Model 1436 Advanced Telephone Circuits

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