RF Communications



Communications Training That Speaks for Itself

From Marconi's first transmitted signal over the airwaves to the millions of mobile phone connections around the world today, Radio Frequency (RF) Communications has been a part of our lives for over 100 years. In Amateur Radio, Avionics, Telecommunications, Broadcasting, or Satellite Communications, a technician must possess a solid foundation in the skills and theory of RF Communications. Through comprehensive hands-on training in AM and FM receivers, AM transceivers, NBFM transceivers, and Single Side

Band transceivers, E & L-Nida RF Communications programmes provide the required skills & knowledge to succeed in those disciplines. The programmes are available as an addition to an existing Model 130E test console based curriculum or as a stand-alone programme using the E & L-Nida Model 205ECT communications trainer. When you're speaking of E & L-Nida.

RF Communications

The E &L-Nida RF Communications programmes are ideal preparatory programmes for entry into the wireless communications fields. The programmes teach the theory of operation, trouble-shooting, and repair of standard AM/FM broadcast band receivers and AM/SSB/NBFM communications transceivers. Students learn basic system composition, the RF spectrum, atmospheric effects on radio waves, the heterodyning process, modulation techniques, AF/RF and RF/AF conversions, phase-locked loop and manual tuning operations, AGC, crystal and voltage controlled oscillators, and antenna theory. They also improve their RF communications troubleshooting skills as they experiment on automatically faulted RF communications equipment.

Supporting Courseware

Recommended Pre-requisites

Mathematics DC, AC, Analogue, & Digital Circuits

130E RF Communications Programme

Introduction to Communications

Systems and Terminology
Theory, Operation, and Troubleshooting of:

AM Receivers FM Receivers AM Transceivers Narrow Band FM Single Side Band

Communications Troubleshooting

Assessment, Isolation, & Identification

205ECT RF Communications Programme

General Communications Theory

Power Supplies, Phase-Locked Loop, Amplifiers

AM Broadcast Receivers

Heterodyne & Detector Operation Signal Rejection, Receiver Alignment

FM Receivers

Theory, FM Stereo Receiver Operations Receiver Performance Testing

AM Communications

Receiver Theory, Operation & Alignment Transmitter Theory, Operation & Alignment

Single Side Band Transceivers

Theory, Operation & Alignment

Narrow Band FM

Theory, Operation & Alignment Radio Equipment Troubleshooting

Supporting Hardware









Model 130E Test Console Model 250ECT Comm. Trainer

Model 4444 RF Comm. Card Set Model 4050 Test Instrument Module

Contact

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