

CITY & GUILDS 3666-03 Level 3 Diploma

# Diploma in ICT Communications Systems

*The Diploma is geared towards those seeking supervisory/managerial positions within the Telecommunications, Communications and ICT sectors. This advanced technical qualification fills the skills gap within the National Qualifications Framework and is much sought after by employers.*



Video Conferencing



Test and Repair



Network Activating and  
Commissioning



Termination Techniques  
and Commissioning

## CORE UNITS

You must successfully complete all three core units and one optional unit to achieve the full Diploma

### UNIT 301

*Develop, Manage and Support the Communications Systems Environment*

- Health & Safety and Risk Assessment
- Self Development
- Manage Meetings

### UNIT 302

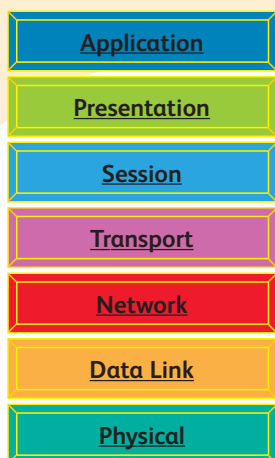
*Fundamentals of Electronic Communications*

- Telecommunications Systems and Network
- Signals
- Logarithms and Decibels
- Transmission Lines
- Optical Fibre Systems
- Modulation
- Amplitude Modulation
- Frequency Modulation and Phase Modulation
- Digital Modulation

### UNIT 303

*Networking Communications Devices*

- Digital Networks
- Principles of Radio
- PSTN
- The OSI Reference Model



## OPTIONAL UNITS

To achieve the Diploma you have to successfully complete one of the optional units and the three core units detailed to the left. A Certificate of Achievement will be given for any additional optional units achieved.

### UNIT 304

*Voice and Data Communications*

- Voice communication
- Data communication
- Local, Metropolitan & Wide Area Networks
- Data Link Control
- TCP/IP
- Voice Over IP

### UNIT 305

*Radio Communications Systems*

- Fundamentals of Electromagnetic Radiation
- Antennas & Feeder Systems
- Radio Transmitters
- Radio Receivers
- Mobile Telecommunication Systems
- Cellular Systems

### UNIT 306

*Transmission & Switching of Communications Systems*

- Basic Transmission Principles
- Pulse Code Modulation (PCM)
- Switching Systems
- Signalling Systems
- Integrated Services Digital Network (ISDN)
- Digital Subscriber Line (xDSL) Techniques
- Digital Multiplexing Techniques
- Asynchronous Transfer Mode (ATM)

### UNIT 307

*Network Management & Security*

- Network Management
- Network Security

### UNIT 308

*Install, Commission & Maintain Communications Systems*

- Site Plans
- Structured Cabling
- Equipment Racks
- Cabinets
- Equipment
- Commissioning
- Test and repair

### UNIT 309

*Network Management & Security*

- Enterprise Networks Cabling Design
- Testing of Copper Cabling in Enterprise Networks
- Testing of Fibre Optic Cabling in Enterprise Networks

## Success stories



**LINSEY WINTERS**

Ex Royal Signals  
Alarms & Security Systems UK wide



**STEPHEN HARTFORD**

Ex Army REME  
Regional Support Manager working in Saudi Arabia



**DAVE RAMES**

Ex Army  
European Field Services Support Engineer

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