WOOD COMMUNICATIONS NETWORKING EXPERTS

ITEX TRAINING ACADEMY

ACCREDITED TRAINING CENTRE

COURSES OVERVIEW

WOOD COMMUNICATIONS
NETWORKING EXPERTS

ITEX
TRAINING ACADEMY

Company Overview

Founded in 1924, Wood Communications is Ireland's Premier leading distributor of Networking products for the Data Communications, Data Centre, Telecoms and Security industry.

We are an Irish owned and managed distribution company who provide network solutions throughout the island of Ireland and mainland Europe. Our Core objective as a company is to provide the right products and solutions to our customers specification, on time, and within budget.

We operate a no nonsense approach in delivering your requirements and service which is second to none. We represent a number of Global Manufacturers and have exclusive agreements with them, enabling us to deliver to you the latest innovations and technological advances. We offer you a turnkey service from start to finish with pre and post sales, technical advice and support. With over 90 years experience we have built our reputation from a proven track record of unquestionable customer service and technical excellence. Networking Experts are two words which we describe our company by. With the Vast experience we have as a company and team, we feel we have earned this tag line.

We hold a large stock of products within our warehouse and offer same day delivery within Dublin and surrounding counties and next day delivery for all other counties.

We provide a broad diverse range of solutions for the following markets:

DATA COMMS	DATA CENTRES	WIRELESS ENTERPRISE INTEGRATORS	INFORMATION & COMMS TECHNOLOGIES (ICT)	SECURITY & IP CCTV
TELCO'S, MOBILE AND WIRELESS ISP'S	ELECTRICAL AND MECHANICAL	HEALTH & EDUCATION	UTILITY OPERATORS	RESIDENTIAL

Foreword

Thank you for taking an interest in our training courses. We have plenty to offer you and hopefully look forward to seeing you soon on the course of your choice.

Our new state-of-the-art training facility in Ballymount, Dublin is within easy reach of Dublin City and Dublin Airport.

Simply get in touch with Wood Communications ITEX Academy today and we'll advise you on upcoming training dates and provide you with more information.

We look forward to hearing from you.

John McMahon
Technical Training Manager

Visit our website at
woodcomm.ie/training

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BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER

DD102: Designing Telecommunications Distribution Systems

CEC INFORMATION
37 BICSI CECS

DD102 is an intensive hands-on course focused on the design of structured cabling systems.

You will design telecommunications spaces, as well as horizontal and backbone distribution systems. Effective learning strategies include case study review and structured application exercises using modernized blueprints with solutions based on real-world conditions.

This intensive five day course has been structured to maximise your take-away from the class. Students work together to complete a final group project, allowing immediate use of new knowledge and skills learned in the classroom.

Course Highlights

- Codes, standards and regulations
- Telecommunications pathways and spaces
- Backbone and horizontal distribution spaces
- Bonding and grounding (earthing)

Prerequisites & Preparation

- Fire-stopping
- Telecommunications administration
- Outside Plant (OSP) and campus cabling

RCDD'S SET THE BENCHMARK FOR THE ICT INDUSTRY, AND DD102 IS AN ESSENTIAL COURSE IN PREPARING YOU TO EARN THAT ELITE DESIGNATION.

WOOD COMMUNICATIONS NETWORKING EXPERTS | ITEX TRAINING ACADEMY

DATA CENTRE DESIGN CERTIFICATE (DCD)

A 3-day training course to focusing on the best practices for the design and layout of a data centre or computer room

CEC INFORMATION
21 CECS

Wood Communications with our partners Capitoline offer this 3-day course that focuses on the best practices specification, sizing and design of computer rooms and data centres. This course takes place at our purpose built facility in Dublin.

You will learn how to Design and layout your Data Centre in the most energy efficient way. Every two weeks, somewhere in the world, a major data centre suffers a major breakdown and loss of availability with an average downtime of 16 hours.

Course Content

- Introduction, including understanding Tier definitions and associated costs. TIA 942, ASHRAE and other Standards
- The 'Green Agenda'. Metrics for measuring data centre energy efficiency
- Sizing and defining the right data centre space
- Specifying raised access floors
- Optimising room layouts including hot aisle/cold aisle formats
- Sizing and designing a resilient power supply system including UPS and generator selection.
- N, N+1 and 2N models
- IT grade earthing, grounding and bonding
- Sizing and designing air conditioning plus modern low energy options
- Fire detection and suppression techniques appropriate to data centres
- Building Management and Physical Security requirements
- Data cable selection, copper and fibre, and ideal interconnect models

Prerequisites

There are no formal prerequisites for the course but attendees must be familiar with general IT and engineering practices.

THE DATA CENTRE DESIGN COURSE (DCD) IS AN EXCELLENT PRECURSOR TO OUR 2-DAY DATA CENTRE OPERATIONAL MANAGEMENT COURSE (DCOM).

DCD+DCOM = DATA CENTRE EXPERT.

DATA CENTRE OPERATIONAL MANAGEMENT CERTIFICATE (DCOM)

DD102: Designing Telecommunications Distribution Systems

CEC INFORMATION
14 CEC

Wood Communications with our partners Capitoline offer this 2-day course that focuses on the best practices to keep the data centre operational at the level of resilience desired. Not only does a good data centre have to be designed and built to best practices but also operated and maintained throughout its working life.

THE DATA CENTRE OPERATIONAL MANAGEMENT COURSE (DCOM) IS AN EXCELLENT FOLLOW-ON FROM OUR 3 DAY DATA CENTRE DESIGN (DCD) COURSE.

DCD+DCOM = DATA CENTRE EXPERT.

Course Content

- Lowering Risk Managing
- Change
- Improving efficiencies and lowering energy consumption
- Procedures and Processes
- Maintenance and Testing
- Preparing for the unexpected
- Understanding the capacity of your data centre
- Maintaining an optimised computer room layout
- Monitoring and keeping control of UPS, Power supply and generator loads
- Monitoring and keeping control of air conditioning capacity
- Health and Safety
- Building regulations and complying with them
- International and UK Standards
- Control of cabling
- EU Code of Conduct on Data Centres

Course Objectives

- Introduction, including data centre failure analysis
- Housekeeping requirements
- Optimising equipment layouts
- Understanding the power flow through a data centre
- BMS and status monitoring including EU Code of Conduct requirements
- Policies and procedures to put in place to manage a data centre
- Essential maintenance plans
- Building Management and Physical Security requirements
- Data cable selection, copper and fibre, and ideal interconnect models

Prerequisites

There are no formal prerequisites for the course but attendees must be familiar with general IT and engineering practices.

DATA CENTRE TECHNICIAN (DCT)

3-day Data Centre Technician Course

This course is for Technicians working in the data centre environment or anyone planning to work in the data centre environment.

It is designed to give Technicians a comprehensive understanding of every aspect of the data centre and its operations including;

- The Physical Infrastructure
- Key Operational Information and Parameters
- Important Processes and Procedures and the Technicians role within them
- Code of Conduct and Professionalism
- Simple auditing and self-assessment techniques

Prerequisites

There are no formal prerequisites for the course but attendees must be familiar with general IT and engineering practices.

The Data Centre Technician Course (DCT) is an excellent precursor to our 2-day Data Centre Operational Management Course (DCOM)

NETWORK INFRASTRUCTURE DESIGN COURSE (NID)

3-day, EQF (European Qualification Framework) level 5

This course is for individuals who want to gain a comprehensive understanding of Network Infrastructure and the key systems, architecture and considerations when designing and installing systems. It is ideally suited to anyone working in or involved with IT, Networking, Telecommunications and Building Services.

Course Content

- Discussion of Network Architecture
- Explanation of all the key components
- How to design Network Infrastructures

Once you have mastered Network Infrastructure Design you can get certified as a Network Infrastructure Design Consultant on Capitoline's NIDC course.

Target audience

Network Infrastructure Consultants and Installers, IT Managers, Data Centre Managers, Electrical Consultants, Network Infrastructure Vendors and anyone working in or involved in IT, Networking, Telecommunications, Building Services or the Network Infrastructure market.

Further Study

Network Infrastructure Design Consultant (NIDC) certificate.

Assessment

The course is assessed by an online exam.

Academic Level

EQF (European Qualification Framework) level 5

Course Materials

Searchable electronic reference manual stored on a secure USB with comprehensive notes on each topic covered.

Certification

Students will receive certification from Capitoline and post nominal NID with dedicated logo.

Prerequisites

There are no formal prerequisites for the course but attendees must be familiar with general IT and engineering practices.

NETWORK INFRASTRUCTURE DESIGN CONSULTANT COURSE (NIDC)

2-day, EQF (European Qualification Framework) level 5

Using the practical experience derived by Capitoline's Directors from designing, implementing, handover and maintenance of network infrastructures this course focuses on best practice specification, procurement, technical overview and acceptance of network infrastructures.

This comprehensive course covers everything from understanding the stakeholder requirements to designing the network infrastructure, providing technical supervision throughout the installation to managing the commissioning and handover process. Learn how to choose the appropriate network designs, make appropriate cable and containment choices and size the distribution infrastructure.

We will also guide you through the design, support and commissioning process as only an infrastructure designer can. Because of our wide experience you will also learn what to include in the specification, how to audit the work in progress and manage the commissioning and handover process.

Target audience

Network Infrastructure Consultants and Installers, IT Managers, Data Centre Managers, Electrical Consultants, Network Infrastructure Vendors and anyone working on a new network infrastructure project.

Further Study

Data Centre Design (DCD) certificate.

Assessment

The course is assessed by an online exam.

Academic Level

EQF (European Qualification Framework) level 5

Course Materials

Searchable electronic reference manual stored on a secure USB with comprehensive notes on each topic covered.

Certification

Students will receive certification from Capitoline and post nominal NIDC with dedicated logo.

Prerequisites

There are no formal prerequisites for the course but attendees must be familiar with general IT and engineering practices.

CITY & GUILDS 3667-101

Basic Principles of Communication Cabling

CEC INFORMATION
7 BICSI CECS

This one day training course aims to equip delegates with the knowledge to successfully deploy telecommunication cabling. Students will learn the telecommunication standards for fibre and copper systems, health & safety and the application of cable in a networking environment.

All candidates are assessed via 25 multiple choice questions – this is a "closed book" examination and is carried out using the computer based City and Guilds e-volve system. Candidates are given their results at the end of the examination.

Course Highlights

- Introduction to communication cabling
- Health and safety
- The application of communications cabling in the networking environment
- Current communications cabling terminology and standards
- Communications cabling bandwidths and performance
- Communications cabling transmission
- Communications cabling components, installation procedures and working practices

Prerequisites & Preparation

The Basic Principles of Communications Cabling City and Guilds 3667-02: 101 course is aimed at anyone who is thinking of entering into the communications cabling installation industry and is a recognised qualification for professional datacomms cabling and structured cabling installers.

THIS COURSE LEADS TO A FULLY ACCREDITED LEVEL 2 QUALIFICATION IN CITY AND GUILDS 3667-02: 101 BASIC PRINCIPLES OF COMMUNICATIONS CABLING.

CITY & GUILDS 3667-102/103

Fibre Optic Cabling in an Internal & External Environment

CEC INFORMATION
37 BICSI CECS

The intensive 5 day course provides delegates with the knowledge to work with fibre optic cable safely. The course enables delegates to learn basic installation practices including terminating and fault finding whilst also understanding the theory and practical skill set required.

All candidates are assessed via 2 individual examinations comprising of a total of 50 multiple choice questions – this is a "closed book" examination and is carried out using the online City and Guilds e-volve system. Candidates are given their results at the end of the examination.

There are also a series of timed practical assessments covering installation practices on a simulated internal and external fibre optic cabling system.

Course Highlights

- Fibre optic cabling fusion splicing, fault finding and loss budget calculations
- Fibre optic transmission
- The 'how' and 'why' fibre optic cabling is used in a datacomms environment
- How optical fibres work and the issues which can affect performance
- Current standards and terminologies
- Identify fibre optic components, explain their uses, carry out an OTDR test and interpret the results
- Work safely with optical fibres in an internal and external environment

Prerequisites & Preparation

The course is ideally suited for fibre optic cabling technicians, datacomms cabling installers and technicians who may have had some previous experience in installing data cabling, but are seeking to acquire new skills in fibre optic cabling, increasing their knowledge and opportunities.

THIS COMBINED CITY & GUILDS 3667-02: (UNITS 102 & 103) COURSE IS THE RECOGNISED QUALIFICATION FOR THE PROFESSIONAL FIBRE OPTIC CABLING INSTALLER.

CITY & GUILDS 3667-104

Copper Cabling in an Internal Environment

The intensive 3-day City and Guilds training course offers candidates the knowledge and installation skills that are required to install, terminate and test copper cabling. Candidates will be provided with the knowledge on basic installation practices of copper cabling systems, termination and fault finding. The City & Guilds course also aims to instruct data comms cabling installers on design principles using industry standards and working practices.

All candidates are assessed via an examination comprising of 25 multiple choice questions – this is a "closed book" examination and is carried out using the computer based City and Guilds e-volve system. Candidates are given their results at the end of the examination.

There is also a timed practical assessment where delegates will install and test a data cabling link (Cat5e/Cat6/Cat6a - Class D/E/Ea). All test results are recorded/saved.

Course Highlights

- Current terminologies in use as applied to copper communication data cabling
- Health and Safety
- Basic electrical theory and principles
- Recommended data cabling installation procedures in accordance with standards
- Data cable presentations i.e. RJ45, Keystone Jack
- Termination of communication cabling
- Fault find copper communication data cabling

Prerequisites & Preparation

This course is aimed at datacomms engineers looking to prove their installation skills and professionalism. It is also applicable to individuals who are in allied trades, for example, electricians and telecomms engineers who wish to increase and broaden their range of skills.

SUCCESSFUL CANDIDATES WILL BE QUALIFIED TO A FULLY ACCREDITED LEVEL 2 QUALIFICATION IN COPPER CABLING IN AN INTERNAL ENVIRONMENT.

MANUFACTURER LED COURSES

Wood Communications ITEX Training Academy provides a pathway where delegates are introduced to brand related training. Wood Communications ITEX Training Academy offers the latest manufacturer-led courses.

HellermannTyton Approved Installer Training

HT Approved Installer Status

To be registered as a HellermannTyton approved installer, an installation company must have at least 1 employee attend the basic C6/Class E & C5e/ Class D HellermannTyton Academy training course as a minimum requirement.

This is a 1 day course held at our premises in Ballymount, Dublin 12. Want to know more please get in contact with our Training Manger today.

Wavestore Video Management Software (VMS) Certified Installer

The Wavestore Partner Program is designed to offer real-world benefits to companies involved in the design, installation and commissioning of electronic security solutions. At Wavestore we believe we are much stronger together with close partnerships leading to better solutions, happier end-clients and more winning situations.

This is a 1 day course held at our premises in Ballymount, Dublin 12. Get in contact to see when the next date is.

Mobotix Training Partner Program

Technical Lab Seminars with an extensive Hands-On Component

Inside the seminar lab, you will work with MOBOTIX cameras in the shared network and learn how to install the software and configure the hardware and software.

You'll work your way through training exercises modeled on real-life applications and can immediately test your solutions to see that they work.

This course varies between 2-3 days depending on what level you wish to attain. Normally held in the UK or Germany on a regular basis.

Corning NPI Network of Preferred Installer

3M/Corning has a long track record within the structured cabling industry in delivering comprehensive copper and fibre training to its customers. Independently of the level of training you require 3M/Corning has the course to meet your needs.

3M/Corning Training modules are one day courses comprising of hands on, theory and safety sessions as well as providing updates on any new and revised industry standards to ensure that you and your company are kept up to date with the latest industry requirements.

Held at our premises in Ballymount, Dublin 12.

BESPOKE COURSES

Our bespoke courses are designed to provide targeted instruction for specific subject areas. Whether you require your team to be taught fibre splicing or need something more customised, we can tailor any request into a workable format. Our dedicated Technical Services department is capable of creating workshops to meet your needs.

Through hands on technical sessions with our dedicated experts we can train engineers on the specific products they are using. This focused approach rather than a general theory based training, helps to remove potential problems, enabling them to be resolved quickly.

Maybe it's a testing procedure you need? Together we can develop the right process, advising of the most suitable equipment and then implement training for all relevant personnel.

OUR BESPOKE COURSES ARE DESIGNED TO PROVIDE TARGETED INSTRUCTION FOR SPECIFIC SUBJECT AREAS. WHETHER YOU REQUIRE YOUR TEAM TO BE TAUGHT FIBRE SPLICING OR NEED SOMETHING MORE CUSTOMISED, WE CAN TAILOR ANY REQUEST INTO A WORKABLE FORMAT.

WHAT ARE BICSI CECS?

The Continuing Education Credit (CEC) program is designed and implemented as a way to enable BICSI credential holders to maximise their training resources whilst expanding their knowledge base and maintaining their existing credentials in an efficient manner.

Wood Communications ITEX Training Academy provides the latest courses that qualify for BICSI Continued Education Credits. This includes BICSI RCDD, DCD & DCOM, and our City & Guild's courses.

Each qualification has been created to reflect best practice, new technologies and standards within the industry. Delegates are reminded that these courses are also recognised internationally by BICSI.

Why are Continuing Education Credits required?

- To document professional development activities during certification renewal period
- To demonstrate that individuals are staying abreast of developments in a rapidly changing industry
- To establish validity and credibility to the registration designation

NEARLY ALL OF THE COURSES RUN AT THE WOOD COMMUNICATIONS ITEX TRAINING ACADEMY ARE ACCREDITED BY BICSI. THIS MEANS NO MATTER WHAT COURSE YOU CHOOSE, YOU'RE LIKELY TO EARN CECS.

Additional Courses

STRUCTURED CABLING COURSE (1 DAY)

Who is it for?

If you are:

- A Network Manager or Cabling Technician needing an understanding of structured cabling systems,
- A Cabling Installation Manager who wants an introduction to structured cabling, systems,

then YES it's for you!

Course Highlights

INTRODUCTION
- Who needs structured cabling?
- Benefits and drawbacks of structured cabling

TERMINOLOGY – REVIEW
- Definitions and jargon busting
- Network types
- Signalling
- Why have standards?

CABLING STANDARDS LAN MEDIA
- Coaxial cable
- Copper twisted pair
- Cat5e & Cat 6 cable and beyond
- UTP and STP
- Fibre optics cable
- Wireless LANs

STRUCTURED CABLING
- Structured cabling systems
- Generic cabling structure

INSTALLATION
- Safety precautions
- Installation techniques
- Connectors and termination

PRACTICAL
- Colour codes
- Termination RJ45 connectors
- Using termination tools

Award

ITEX Certificate in Structured Cabling

FIBRE OPTIC COURSE (1 DAY)

Who is it for?

The course is ideal for those who wish to plan, design and install data & security systems and any IP IOT device connected using optical fibre.

Course Highlights

- Fundamental theory of optical fibre
- Design fibre solutions using single-mode and multi-mode
- Understand termination methods
- Fusion Splicing
- Measuring and calculating losses
- Effective testing methods
- Installing and handling optical fibre
- Identify connector types such as LC, ST, FC, MTP/MPO and SC

Testing

- Continuity Testing
- Attenuation Testing
- OTDR

Award

ITEX Fibre Optic Certificate

INTRODUCTION TO IP TECHNOLOGY & CCTV (1 DAY)

This 1 day course offers a superb blend of 'need to know' Classroom theory and 'hands on' practical experience.

Course Highlights

The ITEX Academy 1 Day Introductory Course includes the following subjects:

- What is an IP address, subnet mask, default gateway and DNS?
- Network settings, protocols and addressing
- Basic network troubleshooting
- Port forwarding and remote access via LAN/WAN
- Practical exercises connecting to DVR's, NVR's and IP Camera setup

Award

ITEX IP CCTV Certificate

WIRELESS NETWORKING COURSE (1 DAY)

Who is it for?

If you are:

- An Engineer who want to find out how wireless technologies work,

then YES it's for you!

What does it cover?

- What is a Wireless LAN?
- Advantages of WLAN (This will give a basic introduction to wireless technologies)
- Introduction to best practice when conducting a WLAN site survey
- How to deploy a WLAN after survey
- The pros and cons of a controller based WLAN – inclusive of when to deploy 2.4Ghz or 5Ghz access points or both dependent on client priorities and network infrastructure
- Analytics over WiFi
- Wireless LAN security protocols
- Introduction to the use of SSIDs and wireless hotspots
- Future trends in wireless
- Antenna types and use of MIMO to increase data rates

Award

ITEX Wireless Networking Certificate

How to find us

Wood Communications ITEX Academy is based in Ballymount, Dublin 12. We are close to Dublin Airport, and 20 minutes from Dublin City.

Our Head Office address is:

Wood Communications ITEX Training Academy,
Unit L7 Ballymount Industrial Estate,
Ballymount Drive,
Dublin,
D12 FV07,
Republic of Ireland

TRAVELLING BY ROAD

Wood Communications ITEX Academy is located just off the M50 Motorway at Junction 10, the exit for Ballymount.

TRAVELLING BY AIR

We're located 30 minutes from Dublin Airport. Leave Dublin Airport and head South on the M50 Motorway towards Tallaght.

TRAVELLING BY TRAIN

We are located 15 minutes walk from the LUAS Light Rail System. Get off at the Red Cow stop, then walk towards Ballymount Drive or catch a taxi for a short 3 minute drive.

Places to stay

Dublin provides a host of Hotels and B&Bs located near local amenities & transport hubs. We understand the importance of comfort and location whilst training. Wood Communications ITEX Academy recommends a selection of accommodation situated near our facility. We advise all individuals to book in advance to secure your preferred option. Below are a sample of the many hotels and B&B's to suit all tastes in the area.

RED COW MORAN HOTEL

Now, you already know that this is probably the best location you could have chosen: right at the gateway to Dublin, and from here you can get to everywhere in the city, and everywhere in the country, easily. The hotel is located beside the famous Red Cow Roundabout, at the junction of the M7 Naas Road and the M50 at Clondalkin. This is the perfect place to get to and from wherever you're going.

The Red Cow Moran Hotel is almost directly adjacent to Red Cow LUAS stop, a transport line which brings you right into the heart of Dublin City passing the Jervis Town Centre and the Church Pub before it heads into the IFSC, the heart of Dublin's Financial District.

Tel: +353 (0) 1 459 3650

Website: www.redcowmoranhotel.com

LOUIS FITZGERALD HOTEL, NAAS

Located along the M50, this modern 4-star hotel offers free WiFi and on-site parking with rooms providing en-suite bathrooms. From the South West, take Exit 1A for access to The Louis Fitzgerald Hotel. From the City Centre, after the Red Cow Junction, keep left and take Exit 1A for Clondalkin/Tallaght to go under the flyover.

Tel: +353 (0) 1 403 3300

Website: www.louisfitzgeraldhotel.com

WOOD COMMUNICATIONS
NETWORKING EXPERTS

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ENGINEERS IRELAND
cpd REGISTERED TRAINING PROVIDER

City & Guilds
Approved Centre

Bicsi
RCDD