HellermannTyton
ACADEMY

Training Courses
Better Technology through Innovation

MADE TO CONNECT

Train Smarter with HellermannTyton

HellermannTyton offer a variety of fibre and copper training courses to meet the needs of its customers.

These courses cover a wide range of topics, including cable configurations, cable construction, power and data, shielded systems, product installation, and best practices.

Whether you are looking for installer training, City & Guilds or CPD, HellermannTyton has a course to fit your needs.

"It's the personal approach which sets you apart from others as relationships have been built and to take the time to meet with us face to face to discuss updates and latest products shows just how much you care about your clients."

Customer Satisfaction Survey 2024

Why choose HellermannTyton

At HellermannTyton, we are committed to providing full training programmes designed to support our products and the applications they are intended for.

Here is how our training courses can benefit installers and the projects, to ensure best practice throughout:

Expert Instructors

- **Industry Experience** - our course instructors have hands-on industry knowledge and play a key role in the design of our products. With this background, our training experts are best place to provide you with the skills and advice to install HellermannTyton products to the highest standards.
- **Detailed Knowledge** - our products are designed and tested at our sites in the UK, allowing our team to share their insights in the classroom, providing you with technical and practical skills to take into the field.

Comprehensive Course Programme

- **Training Courses** - all of our courses are created to give installers and engineers the highest level of training to meet the needs of product installation for existing or future projects.
- **Tailored Training** - our courses can be designed to meet the specific needs of your installation.
- **Cutting Edge Topics** - stay ahead of the curve with training on the latest technologies and industry standards.
- **Hands-on learning** - gain the skills and knowledge through practical exercises at our training facilities.

Flexible Course Delivery

- **Face to Face** - at our purpose built facility in Northampton.
- **Virtual/online** - through web based meeting software.
- **On-site training** - where we come to you for 'real-time' hands on training.

Certified Accreditation

- **25 Year Warranty** - upon completion of certain courses we can offer our industry respected 25 year system warranty for your network infrastructure installation.
- **CPD Recognised** - HellermannTyton are constantly reviewing and adding courses to our CPD programme. CPD points are available on completion of the listed courses.
- **City & Guilds** - Our City & Guilds Level 2 fibre cabling course provides a deeper knowledge and skills base for fibre installation.

Unrivalled Technical Support

- Our team is dedicated to providing technical support throughout your training journey and project installation.
- Through our website and dedicated sales team, there is access to a range of technical resources to support your project.

Established UK Manufacturer

- Our products are manufactured, assembled and shipped from our UK facilities, ensuring shorter leads times and greater availability to help deliver your project on-time. With over 30 years of industry knowledge and experience our UK based team are available to assist you at every stage of your installation.

Our Courses

All of our courses are designed and delivered under the HellermannTyton Academy name, which is globally recognised across multiple industries for providing world leading training on an extensive range of products from the global HellermannTyton portfolio.

HellermannTyton Connectivity are proud to play our part in the Academy and ensure our courses and training meet the same exacting standards.

Authorised Installer Programme
Complete Copper and Complete Fibre

These courses are designed to give attendees both practical and theoretical training, covering a range of topics and the latest industry standards.

Webinar Authorised Installer

This course is aimed at installers with varying levels of experience, providing training on a range of topics without the need for going 'back to basics'.

Toolbox Training

For this course, our training instructors come to you to develop your practical skills and knowledge in real-time, either on a current project or at an on-site venue determined by you.

Product Technology and Support

Designed for those new to the industry or with experience, aimed to give you additional skills and knowledge in a range of areas including testing, inspection and cleaning.

HellermannTyton Structured Cabling 101

A two part course, covering both copper and fibre installation, designed to give those with little or no experience a solid introduction to the world of structured cabling and installation best practice.

City & Guilds 3668 Communications Cabling Course

This is an intensive fibre course, covering all aspects of fibre preparation, installation and testing where on completion you will have gained an industry recognised City & Guilds qualification.

CPD Accredited Courses

Our CPD courses are short 'additional learning' courses designed to develop your industry knowledge and gain CPD points towards existing CPD accreditation.

Authorised Installer Programs

Complete Copper

About this course

HellermannTyton Connectivity's Complete Copper Training Course combines theoretical knowledge with practical exercises, bridging theory and practice for a greater understanding and appreciation of structured cabling installation.

The Complete Copper course focuses on Category 6 and Category 6A twisted Pair Ethernet technology. This course is ideal for any engineer looking to gain Authorised status for HellermannTyton HTC systems or to gain a better understanding of installation practices.

Contents
- Company Introduction
- Cabling Standards
- Construction Products Regulation
- Cabling Configurations - Theory and Practical
- Cable Categories
- Cable Construction
- Power and Data
- Shielded Systems
- Product Installation Guidelines - Theory and Practical
- Category 6 Product Range
- Category 6A Product Range
- Testing Procedures - Theory and Practical
- Warranty Process and Application

Duration:
1 day

Location:
Northampton

Cost:
For up to date price information, please contact out internal sales team: sales@htdata.co.uk

Upon completion:
Attendees will receive certification confirming Authorised Installer status

Who is this course for:
Designed for engineers and installers looking to gain Authorised status and qualify for the 25 Year Warranty programme

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

Complete Fibre

About this course

HellermannTyton Connectivity's Complete Fibre Training Course combines theoretical knowledge with practical exercises, bridging theory and practice for a greater understanding and appreciation of structured cabling installation.

Complete Fibre focuses on Multimode OM3, OM4 and Singlemode OS2 technology. This course is ideal for any engineer looking to gain Authorised status for HellermannTyton Enterprise Fibre systems or to gain a better understanding of installation practices.

Contents
- Company Introduction
- Cabling Standards
- Construction Products Regulation
- Cable Construction
- Patch Panels, Assemblies, Connectors
- Pre-Terminated Fibre
- Health and Safety
- Installation Practices
- Fibre Termination - Theory and Practical
- Operational Distances
- Testing Procedures - Theory and Practical
- Warranty Process and Application

Duration:
1 day

Location:
Northampton

Cost:
For up to date costs please contact sales: sales@htdata.co.uk

Upon completion:
Attendees will receive certification confirming Authorised Installer status

Who is this course for:
Designed for engineers and installers looking to gain Authorised status and qualify for the 25 Year Warranty programme

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

Webinar Authorised Installer Training

Fast Track for Experienced Installers

About this course

HellermannTyton Connectivity offer an online authorised installer training session delivered via Teams Webinar, for engineers who have 2+ years of structured cabling installation experience. To qualify engineers must provide evidence of valid certification from another training provider. This can consist of at least two certificates from Structured Cabling Manufacturers and/or certification from industry or nationally recognised qualifications such as City & Guilds Communications cabling course or CNET CNCI qualifications.

This webinar builds on the engineers experience and expertise of how to correctly handle and install structured cabling networks correctly in order to achieve the best performance standards. The training session introduces HellermannTyton Connectivity's HTC Cat6, CAT6A and enterprise fibre systems, how we expect these systems to be installed, tested and commissioned. Termination videos are included however there is no practical element to this session. We therefore encourage toolbox training.

Contents

- Company Update
- Product Discontinuation / changes (if applicable)
- HTC Series Introduction
- CAT6A Solution - Includes termination tutorial
- CAT6 Solution
- MPTL - Modular Plug Terminated Links - Includes termination tutorial
- Enterprise Fibre Systems
- RapidNet System
- Fibre Duct Raceway
- Testing Procedures
- Warranty Process
- Warranty Process and Application

Duration:
2 hours
Course starts: 9:00
Course ends: 11:00.

Location:
Webinar

Cost:
Free of charge

Upon completion:
Attendees will receive certification confirming Authorised Installer status

Who is this course for:
Designed for engineers and installers looking to gain Authorised status and qualify for the 25 Year Warranty programme

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

Toolbox Training

On-site, Practical, Termination and Testing

About this course

We offer Toolbox Training on-site as standard for all projects where HellermannTyton Connectivity Structured cabling systems are being installed.

This gives any engineer who may be involved with terminating and/or testing a chance to receive a practical, hands on tutorial of termination best practice and testing protocols applicable for successful cable certification and warranty application. The content and components are relevant to the system being installed and therefore is unique to each installation.

Contents

- Trainer Introduction
- Overview of the system
- Product and standards update (if applicable)
- Outlet, Plug, Panel termination tutorial and practical.
- Testing Procedure Theory
- Warranty Application
- Q and A's

Duration:
1 hour

Location:
On-site

Cost:
Free of charge

Upon completion:
Engineers will be signed off as competent installers of specified HellermannTyton system products or components

Who is this course for:
This course is for installers who are currently working on a project where HellermannTyton products have been specified

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

Structured Cabling 101

Introduction to Copper and Fibre

About this course

HellermannTyton Connectivity offers a Structure Cabling 101 course which is split into two parts, Part 1: Copper, Part 2: Fibre.

Structured cabling 101 is a great course to build up that foundational knowledge and understanding of what structured cabling is, how and where it is installed and the components that make up the complete systems for both copper and fibre solutions.

This course is aimed at those with little to no experience within the structured cabling world. Whether you are a primarily and electrician, security installer, mechanical and engineering contractor, designer or sales. If you want to understand more about what's involved with structured cabling then this is a great introductory course. Both parts can be delivered independently if your specific interest is just copper or fibre.

It can also be delivered in one or split over two sessions if you have a combined interest. There is no practical element to this training although product samples will be used to discuss the component specifications.

Contents

Part 1 - Copper
- Company Introduction
- Structured Cabling Sectors
- What is Structured Cabling
  - Standard Bodies
  - Specifications
  - 3rd Part Verification
  - Cable Categories
  - Permanent and Channel Links
  - Application
- Key Components
  - Patch Panels
  - Cables and CPR
  - Patchcords
  - Outlets
  - Mounting Hardware
  - Consolidation Points
- Cable Handling
  - General Workmanship Rules
  - Bend Radius
  - Cable Management
- Terminations
  - Punchdown IDC
  - Conductor Pair Twists
- Pre-terminated Solutions
- Testing Procedures
- Warranty Process
- Further Training

Part 2 - Fibre
- Introduction to Fibre Basics
  - Basic Principles - How it Works
  - Basic Principles - Polishing
  - Fibre Performance Specifications
  - Cable Types and Construction
  - Connectivity
  - Termination Methods (Polish/Splice)
  - Applications
- Fibre Product Solutions - Enterprise
  - System Overview
  - Distribution Cable
  - Patch Panels
  - Cable Assemblies
  - Pre-Terminated Solutions
  - Accessories
- Fibre Product Solutions - Data Centre
  - System Overview
  - High Density Pre-Terminated Solutions
  - Cable Assemblies
- Testing Procedures
- Warranty Process
- Further Training

Duration
Half day each part
Part 1: Copper Half Day
Part 2: Fibre Half Day

Location:
Northampton, on-site, online

Cost:
Free of charge

Upon completion:
You will have gained a better understanding of the components and how to correctly choose, handle and commission them as part of an overall structured cabling system. A certificate of completion will be produced and sent to the attendees.

Who is this course for:
Aimed at those with little or no experience in structured cabling, this course is ideal for electrical contractors and security system installers.

What to do next:
If you wish to take a deeper dive into the world of structured cabling or become an authorised installer we recommend booking our authorised installer courses or consider booking a City & Guilds communications course.

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

Product Technology and Support Training

Supplementary support training

About this course

HellermannTyton Connectivity offer an array of supplementary training courses to help support engineers, consultants and sales representatives. Whether you are experienced or new to the industry, these product technology and support training sessions are ideal for anyone looking to gain greater understanding, update existing knowledge and receive hands on, practical training directly from a manufacturer.

These training sessions are delivered in person only as there is an emphasis on hands on learning and compulsory involvement with attendees. They can be delivered on site or at our Northampton headquarters.

Fusion Splicing

Gain an understanding of fusion splicing and learn;

- How the technology works and understand the anatomy of your fusion splicer
- Understand how to prepare and use a cleave tool
- How to prepare your fibre for splicing
- Splicing tutorial and hands on practical learning
- Troubleshooting
- Fusion splicer and cleave tool care and maintenance

Fibre Inspection and Cleaning

Understand the importance of fibre cleaning and Inspection, learn;

- Why fibre contamination is a major issue and the affects it can have on tour network
- Understand what fibre inspection and cleaning tools are available on the market and how to use them
- Learn the inspect > clean > inspection protocol
- Hands on practical learning
- Troubleshooting

Fibre Testing

Receive hands on practical training on Fibre certification and basic OTDR testing;

- Overview of fibre types, testing tiers (Tier 1 and Tier 2), and standards.
- Tools and Equipment for Testing
- Tier 1 Testing: Basic Certification - Insertion loss, length testing, and connector inspection
- Tier 2 Testing: Advanced Certification with OTDR - OTDR setup, trace analysis, and troubleshooting
- Documentation and Reporting - Test report generation, interpreting trace data, and client handover

Copper Cable Certification Testing

Receive hands on practical training on Copper Cable Certification testing;

- Importance of Cat6/Cat6a certification testing
- Tools and Equipment for Certification Testing
- Key Certification Tests for Copper Cabling - Tests: wiremap, length, NEXT/FEXT, attenuation, delay, skew
- Troubleshooting and Re-testing - Common failure causes, diagnostic techniques, and retesting
- Documentation and Reporting - Test report generation, interpreting trace data, and client handover

Duration
Vary on requirements

Location:
Northampton, on-site

Cost:
Free of charge

Upon completion:
Course attendees will have developed a greater understanding of testing, cleaning and inspection process during installation.

Who is this course for:
This course is for installers looking to gain additional installation skills and knowledge.

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

City & Guilds

3668 Communications Cabling Course

About this course

The Level 2 Award in Communication Cabling helps learners to develop the knowledge and skills required to become effective in the installation of communication cables and connecting to relevant systems.

For those who wish to progress further, the Level 3 Certificate in Communications Cabling builds on the competence of installation and facilitates moving into supervisory roles.

This qualification has been developed in collaboration with the Training and Qualifications Committee for the Fibre optics Industry Association which is led by CTTS (chair), Lucid Optical Service and Total Comms Training. Further collaboration involved BT Openreach, Cityfibre, Hyperoptic, PQMS, TBN Virgin Media and White Associates.

The 3668 Communications cabling qualification provides eligibility for the relevant electrotechnical Certification Scheme (ECS) Network Infrastructure cards (which have replaced the previous ECS Datacomms cards).

This qualification is aimed at learners aged 16 and above who would like to gain the knowledge and skills required during their initial training within the network infrastructure (communications cabling) industry for specific job roles. It is also for those who work within the telecoms industry and wish to further develop their knowledge and skills.

To gain these qualifications you will learn with HellermannTyton in partnership with Lucid Optical Service through practical sessions, group discussions, assignments and online tests.

Contents

- Introduction
  - Features of fibre, telecommunications and basic system components
- Optical Fibre Basics
  - Structure, materials, light propagation, MM and SM specifications
- Fibre Safety
  - Fibre sharps, chemicals, optical and environmental hazards
- Cables
  - Internal and external cables, types and features
- Joining Fibres
  - Problems, methods and typical specifications
- Fibre Connectors
  - Principles and connector types
- Cable Preparation
  - Tools and techniques
- Fibre Splicing
  - Principles, fusion technology, fibre preparation, mechanical splices
- Termination
  - Fitting connectors, techniques, inspection and acceptance criteria

- Cable Joint Enclosures
  - Requirements, types and ODFs
- Installation Methods
  - Pulling, laying and blowing
- Optical Components
  - Transmitters and Receivers, amplifiers, couplers/splitters, WDMs
- Fibre Testing
  - Continuity, VFL, ILM, OTDR basics and fault locating
- OTDR Set-Up and Use
  - Wavelengths, range, pulse width, group index
- Testing Configurations
  - Cable drum acceptance tests and installed system tests
- Measurement Problems
  - Launch problems, ghosts, "gainers", saturation and linearity problems
- Course Review Assessment
  - Assessment of practical skills for each of the two qualifications, plus on-line, multiple choice tests for each unit

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Reference:
CG-2FC

Duration:
5 days

Delegates:
Max. 10

Location:
Northampton

Cost:
For up to date costs please contact sales: sales@htdata.co.uk

Upon completion:
This qualification will cover communications cabling processes and principles. Learners will develop skills such as how to install fibre optic, copper and/or air blown fibre cables and micro-ducts.

Who is this course for:
If you're new to communication cabling, or have some basic experience. You want to gain the knowledge to succeed in a job or move on to further study.

Learners will be introduced to the scope and opportunities offered within the network infrastructure (communications cabling) and telecoms industry.

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

CPD Accredited Training Courses

A Guide to Shielded Systems; Power and Separation

About this course

This short CPD course is delivered as a Teams webinar, explaining the Importance of Separation, Power and Data Separation guidelines. The effect of EMI and Communication Cables. What Crosstalk and Alien Crosstalk is and how to minimise it. Cable Constructions, Shielded Products, Bonding Methods. The course also looks at Permanent Link, Grounding and Completing the Earth Loop.

Contents

- The Importance of Separation
- Power and Data Separation guidelines
- EMI and Communication Cables
- Crosstalk and Alien Crosstalk
- Cable Constructions
- Shielded Products
- Bonding Methods - Permanent Link
- Grounding and Completing the Earth Loop

Duration:
1 hour

Location:
Webinar

Cost:
Free of charge

Upon completion:
Attendees will receive confirmation of course completion and instructions on how access CPD credits.

Who is this course for:
For engineers and installers looking to further their development and gain CPD credits.

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

A Guide to Zone Cabling

About this course

In this short online CPD course we give you a detailed explanation of what Zone Cabling is and the benefits of deploying it as a network architecture. We also cover application examples and installation guidelines.

Contents

- Zone Cabling Explained
  - Star Topology
  - Zone Cabling Topology
- Application Examples
  - Intelligent Building
  - Mission Critical
  - Retail
  - Cable Conversion
- Implementation Caveats
  - Margin Reduction
  - Minimum Lengths
  - Testing
  - Link Extension

Duration:
1 hour

Location:
Webinar

Cost:
Free of charge

Upon completion:
Attendees will receive confirmation of course completion and instructions on how access CPD credits.

Who is this course for:
For engineers and installers looking to further their development and gain CPD credits.

How to book:
For more information or to book a place please contact us at sales@htdata.co.uk

MORE CPD COURSES COMING SOON! Contact us if there's a course that you're interested in by emailing us at: **sales@htdata.co.uk**
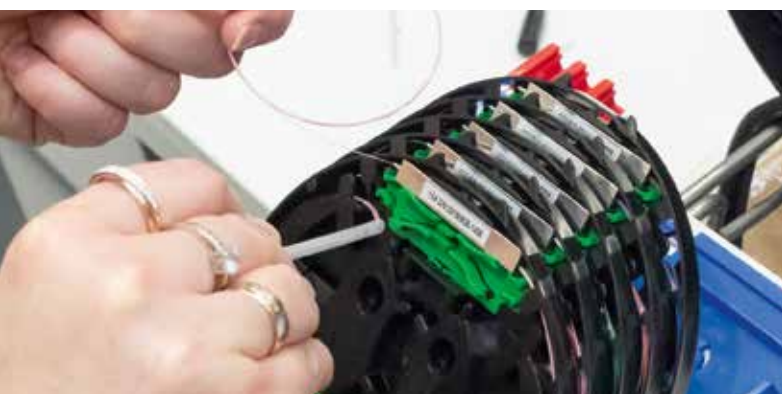
Fibre and Copper

Installer Training with HellermannTyton

HellermannTyton offer a range of training courses to support our products and the applications they are designed for including City & Guilds, CPD and our own tailored installer courses.
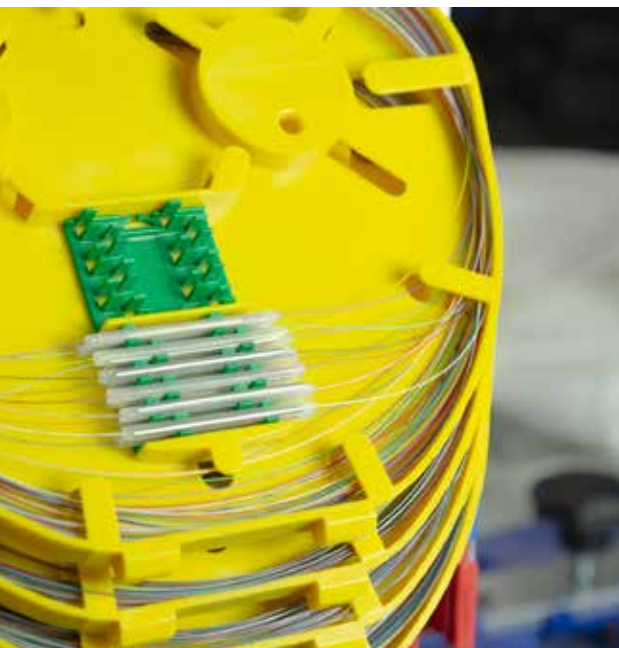
HellermannTyton 25 YEAR System Warranty

City & Guilds

CPD CERTIFIED — The CPD Certification Service

MADE TO CONNECT

RO-TRAINING-R10