



DESIGNING, INSTALLING AND OPERATING CABLING INFRASTRUCTURES

.....the ultimate information technology cabling training course

A 2-day intensive course with optional 12-month service pack

OBJECTIVE

...to understand the implications of the latest standards for telecommunications cabling with specific reference to the design, planning, installation and operation of both balanced and optical fibre cabling infrastructures...

BACKGROUND

Conforming to the requirements of the latest structured cabling design standards has never been more complex. Add to this the additional planning requirements to be found in the recent installation and testing standards and we have an interesting, but very confusing, mixture of normative and informative demands within an overall framework of voluntary, mandatory and legally binding standards.

Design of the end-to-end cabling channel to ensure network support has pushed aside the relatively simple design process for fixed link cabling. Planning of pathways and spaces in order to maximise the potential performance of the cabling channels has created new rules for the segregation of power and IT cabling. Commissioning of cabling, particularly the testing of optical fibre, has become increasingly complex and prone to error - unless the correct tests are adopted. Finally, administration (or connectivity management) of the completed infrastructures has become a dominant feature for those involved in network reliability assessment.

This training course is product- and supplier-independent and is the most exhaustive and comprehensive review of all the above issues. It is targeted at designers and installers wishing to operate in a professional manner - knowing that they are working in accordance with the standards and, equally importantly, knowing why they are doing so.

10 CECs - RCDD

10 CECs - Installer



SCHEDULE Q1, 2004

JANUARY	FEBRUARY	MARCH
-	Date: 3rd/4th February 2004 Location: London, England	Date: 9th/10th March 2004 Location: Manchester, England
In addition to the scheduled dates shown above, it is possible to arrange on-site training to suit specific company requirements. Costs for on-site training are shown below.		

COSTS

Scheduled Courses	On-site Training (UK)	Service Packs
Sterling: £590.00 per person Euro: €950 per person	Sterling: £2500 plus £100 per person Euro: €4000 plus €160 per person	In addition to the training course, The Cabling Partnership offers a 12-month service pack agreement. The service pack provides details of all changes relevant to the training received. This takes the form of an e-Newsletter together with copies of all applicable documentation. Sterling: £75.00 per person Euro: €120 per person
	On-site Training (outside the UK) Contact The Cabling Partnership for details	
The above costs include refreshments during the courses but exclude accommodation.		
The above costs are subject to VAT where applicable.		

....how to book? go to page 4



DESIGNING, INSTALLING AND OPERATING CABLING INFRASTRUCTURES

.....the **ultimate** information technology cabling training course

A 2-day intensive course with optional 12-month service pack

..... the end of supply chain training?

In the past, training courses covering design and installation practices were provided by product suppliers.

Now, the ratification of US, international and European (thereby British) standards for design of structured cabling combined with other documents covering installation and administration threaten to make "supplier-specific" courses a thing of the past.

.....compliance or litigation - the installers choice!

In the past, standards for design and installation of IT cabling were only relevant if called up in contracts. Now, changes are underway to make compliance with BS 6701 and BS EN 50174 standards an implicit requirements of all contracts.

Failure to recognise the implications of this change could leave installers open to claims for re-work, compensation and, ultimately, litigation.

..... 568-B, BS EN 50173-1, ISO/IEC 11801?

The almost simultaneous publication of the latest cabling design standards in the US, Europe and internationally suggests that they contain similar requirements. However, there are significant differences - most critically in relation to testing of the installed links.

Installers cannot conform to all three standards - yet are frequently asked to do so within tender documentation.

..... preparation is key to success

Effective planning and QA are critical to well-managed and profitable contracts.

BS 6701 and BS EN 50174 standards apply to all telecommunications cabling (not just structured solutions) and define requirements for elements of cabling infrastructure that go far beyond the basic design issues called up in ANSI/TIA/EIA-568-B, BS EN 50173-1 and ISO/IEC 11801.

..... administration is more than just labels

Long-term performance and reliability of the networks supported by cabling infrastructures depend upon accurate and accessible documentation together with a controlled administration system.

ANSI/TIA/EIA-606-A, BS EN 50174 and ISO/IEC 14763-1 provide the foundations of good administration. e-Tools can deliver the solutions.

Twelve months in development, this training course is THE benchmark for the design and planning, installation and operation of IT cabling infrastructures

Totally supplier-independent, the course provides consultants, installers and users alike with the tools required to perform effectively in a standards-compliant and litigation-free environment

10 CECs - RCDD

10 CECs - Installer





DESIGNING, INSTALLING AND OPERATING CABLING INFRASTRUCTURES

.....the ultimate information technology cabling training course

A 2-day intensive course with optional 12-month service pack

AGENDA

DAY ONE		DAY TWO	
0930 hrs	Installation Specification Cabling Standards and Industry Body Recommendations Quality Assurance ANSI/TIA/EIA-568-B, EN and ISO/IEC Standards Application Mapping and Technology Selection The Installation Specification Technical Specification Scope of Work and Contract Documentation	0930 hrs	Installation Administration ANSI/TIA/EIA-606-A, EN 50174-1 and ISO/IEC 14763-1 Documentation - Connectivity Documentation - Schematics Polarity Maintenance Polarity Evolution
1030 hrs	Quality Planning - I Quality Assurance The Quality Plan	1000 hrs	Installation Practice Installation Requirements Delivery to Site and Pre-installation Checks Route Preparation Cable and Closure Installation Termination Safety
1045 hrs	Break	1045 hrs	Break
1100 hrs	Designing the Channels Channel Design Standards The Three Routes to Channel Performance Design and Operational Sensitivity Cords Channel Dimensions and Minimum Performance Reference Implementations The Channel Gap	1045 hrs	Testing of Balanced Cabling Design Standard Differences Link Definitions and Test Interfaces Class D (2002), Class E and F Channels Harmonisation of Parameters Single Segment Cabling "Get-outs" Multi-segment Cabling Length-Dependent Link Parameters
1230 hrs	Lunch	1230 hrs	Lunch
1330 hrs	Planning the Installation - I BS 6701 and BS EN 50174-X Administration Overall Provision Segregation from Mains Power Termination Points Closures	1330 hrs	Testing of OF Cabling Design Standard Differences Optical Fibre Components Channel and Link Attenuation Attenuation Test Methods Light Source - Power Meter (LSPM) Measurement Acceptance Test Approaches OTDR Test Methods
1500 hrs	Break	1430 hrs	Quality Planning - II Statistics Balanced Cabling Optical Fibre Cabling Prepare for Failure Test Result Management
1515 hrs	Planning the Installation - II Frames and Cabinets Cable (Cord) Management Component Selection Equipotential Bonding and Screen (Shield) Management Cable Installation and Termination Safety	1500 hrs	Break
1615 hrs	The User Guide Channel Pre-Design Cabinet/Cord Inspection Schemes Optical Fibre: Contamination and Safety Transmission Equipment Mains Power Cabling	1515 hrs	e-Tools e-Tool Concepts The Hyperlink Environment Sales Opportunities "Off-the-shelf" Solutions
1700 hrs	Close	1600 hrs	Close



DESIGNING, INSTALLING AND OPERATING CABLING INFRASTRUCTURES

.....the ultimate information technology cabling training course

A 2-day intensive course with optional 12-month service pack

....how to book?

You can reserve places on the courses listed below in the following ways:

- by faxing this page, complete with your requirements and contact details to +44 (0) 113 293 2632
- by telephone: +44 (0) 113 232 3721
- by e-mailing your requirements to The Cabling Partnership
 - automatically, by clicking on this hyperlink
 - manually, to mike.gilmore@btinternet.com

RESERVATION FORM

FEBRUARY	Date: 3rd/4th February 2004 Location: London, England	No. of places required				
		Service Pack required	YES		NO	
MARCH	Date: 9th/10th March 2004 Location: Manchester, England	No. of places required				
		Service Pack required	YES		NO	
On-site Training	Please supply your preferred dates	No. of places required				
		Service Pack required	YES		NO	

MY DETAILS

COMPANY NAME					
COMPANY ADDRESS					
	CITY		POST/ZIPCODE		
TELEPHONE					
FAX					
RESERVATION MADE BY					
e-MAIL ADDRESS					
SIGNED					
DATED					