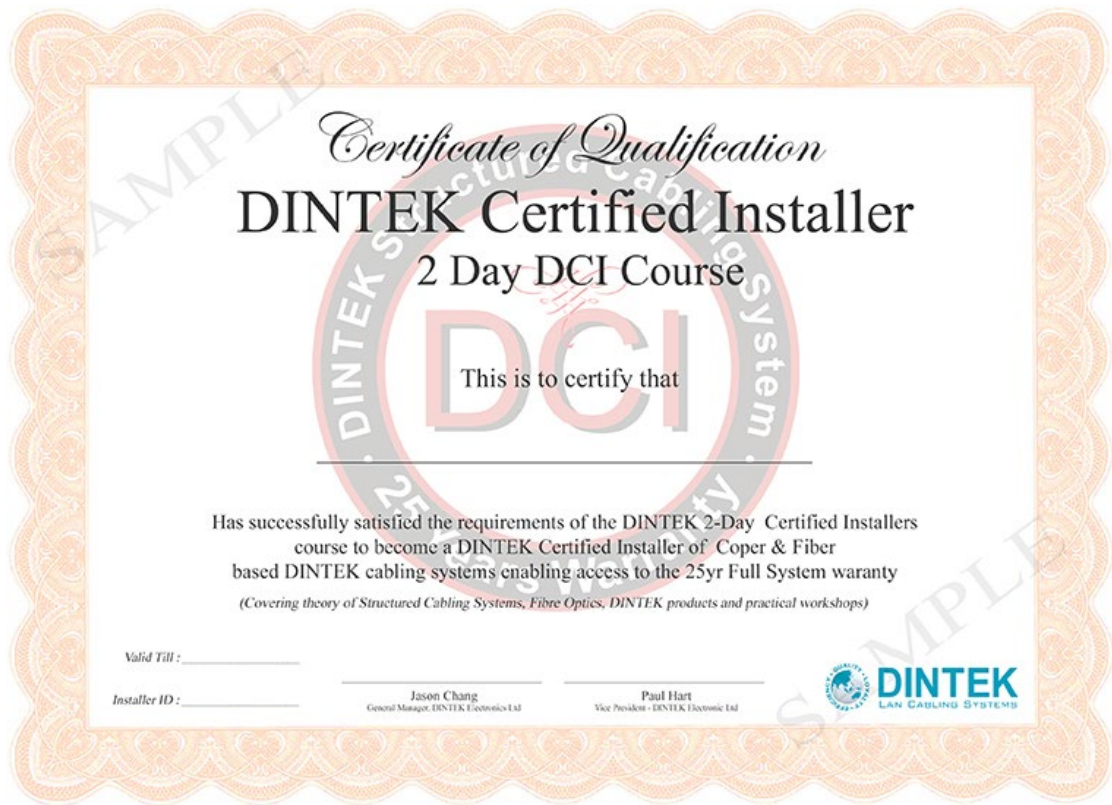




DINTEK DCI

DAY 1

COPPER CABLING 1

Session One

9.00 AM – 12.15 PM

Twisted Pair Basics & SCS Architectures

1.1 Twisted Pair (TP) & Terminations Theory

- 1.1.1 - TP Development and Design
- 1.1.2 - TP Transmission Issues & Remedies
- 1.1.3 - Color Coding & RJ45 Pin-out Positions

1.2 Standards

- 1.2.1 - Standards Organizations
- 1.2.2 - Generic Cabling Standards
- 1.2.3 - CPR Classification
- 1.2.4 - Cabling Types (and x/xTP Naming)
- 1.2.5 - Specifying What Cables to Use & Where

1.3 Cabling Systems & Generic Architectures

- 1.3.1 - Network Topologies
- 1.3.2 - Generic Cabling Architecture - ANSI/TIA 568.0-D
- 1.3.3 - Backbone Cabling Architecture

1.4 Commercial Structured Cabling Fundamentals

- 1.4.1 - Structured Cabling Architecture ANSI/TIA 568.1-D
- 1.4.2 - Applying the Standards to SCS Backbones
- 1.4.3 - Horizontal Structured Cabling Subsystems ANSI/TIA 568.1-D
- 1.4.4 - Applying the Standards to The Horizontal System

1.5 Workshop 1 – DINTEK ezi-PLUG™ Cat.6 Pass-Through RJ45

- 1.5.1 - Terminating a Patch Cord using DINTEK RJ45 Pass-Through Plugs

1.6 Workshop 1B – DINTEK CAT.6A Field Terminated Plugs

- 1.6.1 - Terminating Cat.6A Field Terminated RJ45 Industrial Plug

Session Two

1.00 PM – 5.00 PM

Installation, High Performance Testing & Certification

2.1 Cabling Installation

- 2.1.1 - Pre-wire: Materials and Installation Guidelines
- 2.1.2 - Main Cabling Installation Guidelines
- 2.1.3 - PoE Installation Considerations

2.2 Cabling Termination

- 2.2.1 - Termination: Techniques & Best Practices

2.3 Testing for Cable Certification

- 2.3.1 – Wire-map Testing & Cable Verification
- 2.3.2 - Certification Testing Parameters
- 2.3.3 - Terminology and Definition of Parameters
- 2.3.4 - Test Equipment (Continuity & Dynamic Testers)
- 2.3.5 - Testing Configuration Types
- 2.3.6 - Interpretation of Test Results
- 2.3.7 - Troubleshooting Specific Faults

2.4 25yr Warranty Program

- 2.4.1 - Definition of the 25yr Warranty
- 2.4.2 - Knowing Terminology and Definition of Parameters
- 2.4.3 - Project Registration Requirements

2.5 Workshop 4A/B - CAT.6A Toolless Jack & F-Jack Termination

- 2.5.1 – Workshop 4A - Termination of a Shielded Toolless CAT.6A Jack
- 2.5.2 – Workshop 4B - Termination of a CAT.6A Shielded F-Jack
- 2.5.1 – Workshop 4C - Testing Workshop Connections

2.6 End of Day One Test

- 2.6.1 – 25 Question Test Covering Day One

DINTEK DCI

DAY 2

FIBER OPTICS

Session Three

9.00 AM – 12.00 PM

Fiber Optical Theory

3.1 Fiber Optics Explained

- 3.1.1 - What is Fiber Optics
- 3.1.2 - Construction & Types of Optical Fiber
- 3.1.3 - How Fiber Optics Works
- 3.1.4 - The Light Spectrum
- 3.1.5 - Fiber Optic Transmission

3.2 Fiber Transmission Factors

- 3.2.1 - Fiber Transmission Factors
- 3.2.2 - Absorption and Scattering
- 3.2.3 - Fiber Loss & Loss Budgets
- 3.2.4 – Workshop 5A – Optical Loss Calculation Exercise

3.3 Fiber Cables and Construction

- 3.3.1 - Choosing a Fiber Type
- 3.3.2 - Different Cable Constructions
- 3.3.3 - Fiber Color Coding

3.4 Fiber Connectors, Adaptors & Enclosures

- 3.4.1 - Fiber Connectors, Adaptors & Enclosures

3.5 ezi-FIBER™ Mechanical Terminating

- 3.5.1 - Introduction to the ezi-FIBER™ Range

3.6 Workshop 5 – Fiber Preparation & Mechanical Fiber Terminating

- 3.6.1 – Workshop 5B - Fiber preparation and Stripping
- 3.6.2 – Workshop 5C - Terminating an ezi-CONNECTOR & ezi-SPLICE.

Session Four

1.00 PM – 5.00 PM

Fiber Optic Installation & Testing

4.1 Installing Fiber Cabling

- 4.1.1 - Fiber Cable Installation Guidelines & Practices
- 4.1.2 - Pulling Fiber Cables
- 4.1.3 - Bending Radius/Hauling Tension
- 4.1.4 - Aerial & Buried Fiber installation

4.2 Fiber Loss Testing

- 4.2.1 - Types Of Optical Tests
- 4.2.2 - Single & Double Ended Tests
- 4.2.3 - Types of Optical Loss Tests
- 4.2.4 - Testing Methods

4.3 OTDR Testing

- 4.3.1 - What is an OTDR?
- 4.3.2 - How does an OTDR test fibers
- 4.3.3 - The OTDR Trace and How to Read the Results
- 4.3.4 - Overcoming the Dead Zone
- 4.3.5 - Analyzing The Trace

4.4 Fusion Splicing

- 4.4.1 - Introduction to Fusion Splicers and Splicing technique

4.5 Workshop 6A – Fusion Splicing

- 4.5.1 – Workshop 6A Carrying Out a Fusion Splice

4.6 Workshop 6B - Optical Loss Testing

- 4.6.1 - Carrying out Optical Loss Testing on the workshop terminations.

4.7 End of Day Two Course Test

- 4.7.1 – End of Day Two - Course Test