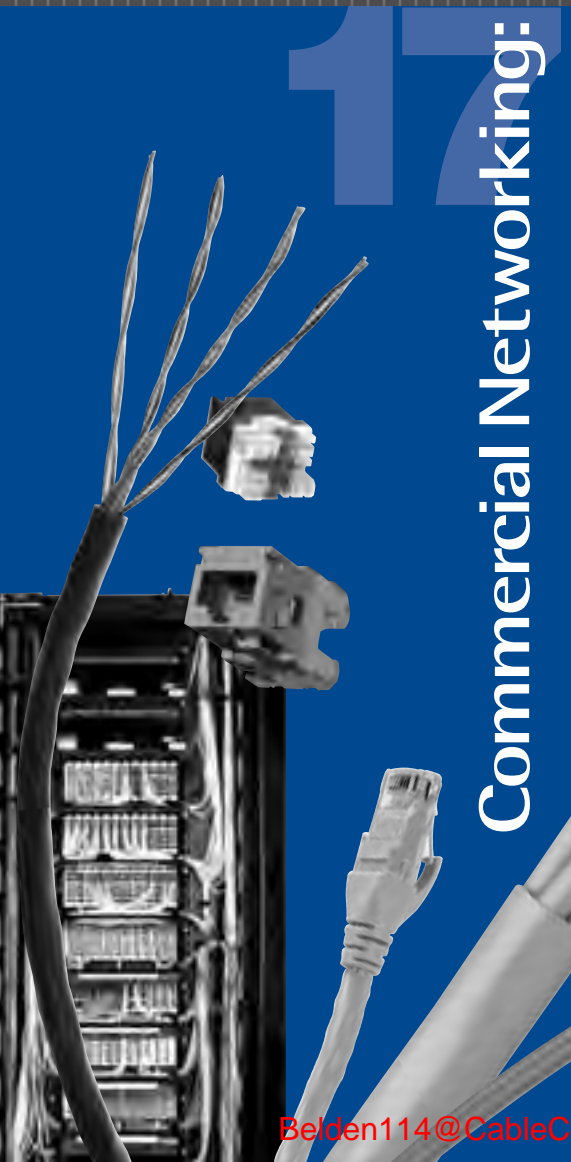




Commercial Networking: Training

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Please refer to "Terms of Use of Master Catalog" on page 22.22

## Belden IBDN Training

### Overview



#### Ensuring Competency Worldwide

The Belden IBDN Training Center has been an integral part of the structured cabling industry landscape for over 14 years, having earned an international reputation for delivering the industry's most comprehensive and effective structured cabling training.

This reputation is forged on the experiences of more than 65,000 students trained worldwide since 1991. Today, the Belden IBDN Training Center serves the needs of more than 5,000 students each year. Our goal is to provide our students with the skills and knowledge necessary to ensure the highest quality and optimal performance in every Belden IBDN System that they design and install.

Ensuring competency and understanding of new technologies, techniques and industry standards is a key goal in our course development. Each Belden IBDN Training Course is regularly updated to include the most current information on Belden IBDN products and practices, as well as new developments in cabling industry standards.

#### Learn from the Experts

Belden IBDN instructors have combined experience of well over 100 years in the planning, design and installation of structured cabling systems. In addition to real life experiences, most are BICSI™ accredited RCDD and RCDD/LAN Specialists, and many have additional technical credentials from industry leaders such as Microsoft™ and Cisco Systems™. Many of them have taught Belden IBDN courses all around the world, and all have the industry knowledge and professional teaching style that maximizes the learning experience.

#### The Purpose of the Belden IBDN Training Center

To ensure solid and optimal network performance, a cabling system supplier should be evaluated on the following criteria:

- Credibility and Industry Standing
- System Offerings
- Customer Care
- Business Partners
- Warranty Program

Through the Belden IBDN Training Center, Belden ensures that our students and Business Partners consistently and accurately represent Belden IBDN Systems, products, and installation standards, with the goal of optimizing network performance.

#### For More Information And Registration

For information on course dates, locations and fees, please refer to:

[www.BeldenIBDN.com](http://www.BeldenIBDN.com)

Or contact us at the Belden IBDN Training Center:

[IBDN.training@belden.com](mailto:IBDN.training@belden.com)

**1-800-262-9334**

## Belden IBDN Training

### Course Descriptions

#### General Course Information

- Our courses are recognized by BICSI and earn BICSI Continuing Education Credits (CECs).
- Our courses qualify students by giving them a professional recognition that may accelerate their career advancement.
- In addition to the cabling contractor community, our courses are recognized and valued by end-customers, architects, engineers and consultants as well. If you need to increase your knowledge of structured cabling systems, the Belden IBDN Training Center is an excellent training investment.
- Our course content is offered in many different languages including English, French, Japanese, Spanish, Mandarin and Cantonese.
- Refresher courses for pre-qualified students are also available.
- Special rates and group discounts are available.
- Fees include a Certificate of Completion for selected courses, continental breakfast, coffee breaks and course materials.



#### Belden IBDN 305

##### Introduction to Belden

(By correspondence on CD Rom)

##### Who Should Attend:

End-users, Networking and Structured Cabling Sales People

##### Course Benefits:

Provides students with an overview of Belden as a leader in telecommunications and offers an overall picture of the Belden IBDN Systems and products, as well as the positioning of Belden in the industry.

##### What Will Be Covered:

- Introduction to cabling
- Overview of Belden IBDN Systems and products, including:
  - GigaFlex Cables: 1200, 2400, 4800LX,
  - Bonded-Pair Cables: DataTwist 350, MediaTwist, DataTwist 600e,
  - GigaBIX, FiberExpress, IntelliMAC-Plus, PowerSense and 10GX Solutions.
- Certification and Exercises
- Case Studies
- Reference Materials

**Prerequisite:** None

**Written Exam:** Yes

**BICSI CECs:** RCDD (7),  
INS, Level 2/Technician (7)

#### Belden IBDN 201/202

##### Project Management for Belden IBDN including Belden IBDN System Audit

(2 days)

##### Who Should Attend:

Installation Managers,  
Installation Supervisors

Participant must be familiar with Belden IBDN Systems as well as the Certification Program

##### Course Benefits:

Develop the skills to recognize the scale of the project and therefore be prepared to put an efficient work plan in place in order to deliver the project on time.

Gain an understanding of the Belden IBDN System design and installation requirements as related to the Belden IBDN Certification Program.

Learn how to conduct and write audit reports.

##### What Will Be Covered:

- Project Manager Responsibilities
- Project Planning
- Project Execution
- Project Closing
- When, Why and How audits are conducted
- Audit Preparation
- Audit Visit
- Audit Report

**Prerequisites:** Belden IBDN-303\* and Belden IBDN-700\*

\*Taken after January 2001

**Written Exam:** Yes, two

**BICSI CECs:** RCDD (14),  
RCDD/LAN (14),  
INS, Level 2/Technician (12),  
OSP (14),  
RES (12)

## Belden IBDN Training

### Course Descriptions

#### Belden IBDN 303

##### Belden IBDN Design and Concept

(2 days) — Can also be provided by correspondence on CD Rom

##### Who Should Attend:

Architects, Designers,  
Networking Consultants

##### Course Benefits:

Gain the ability to design a Belden IBDN Structured Cabling System.

Learn about standards and planning procedures related to the installation of structured cabling systems.

##### What Will Be Covered:

- Belden IBDN Systems and products:
  - GigaFlex Cable: 1200, 2400, 4800LX,
  - Bonded-Pair Cable: DataTwist 350, MediaTwist, DataTwist 600e,
  - GigaBIX, FiberExpress, IntelliMAC-Plus, PowerSense and 10GX Solutions
- Structured Cabling Overview
- Standards Update
- Horizontal Distribution Standards
- Backbone Distribution Standards
- Entrance Facility
- Bonding and Grounding
- Reference Materials
- 60% In-Class Exercises

**Prerequisite:** None

**Written Exam:** Yes

**BICSI CECs:** RCDD (14),  
INS, Level 2/Technician (14)

#### Belden IBDN 700

##### Belden IBDN Installation

(2 days)

##### Who Should Attend:

Belden Certified System Vendor (CSV)  
Installers, and Distributors

##### Course Benefits:

Develop a fundamental understanding of a Belden IBDN Structured Cabling System.

Gain valuable experience on how to install and maintain a complete Belden IBDN Structured Cabling System.

##### What Will Be Covered:

- Belden Company Overview
- Structured Cabling History
- Standards Overview
- Belden IBDN Systems and products:
  - GigaFlex Cable: 1200, 2400, 4800LX,
  - Bonded-Pair Cable: DataTwist 350, MediaTwist, DataTwist 600e,
  - GigaBIX and FiberExpress Solutions
- Certification Overview
- Installation Preambles for Belden IBDN Systems
- Work Area Products Installation:
  - GigaFlex Modules, Face Plates and Workstation Outlets
- BIX and GigaBIX Solutions:
  - IDC System Installation
  - Wall-Mount, Rack Mount Patch Panel System Installation
- Modular Jack and Patch Cord System
- High Density PS5E/PS6+ Patch Panel System
- PS5E Patch Box and Multi-user Box
- PS5E DVO Outlets, MDVO Adapters and EZ-MDVO Modules

- Optical Fiber Overview
  - Belden IBDN FiberExpress Systems and products
  - Products Overview, Fiber Termination, (1U/2U), (3U) and (4U) Patch Panel Installation
- OPTIMAX Field Installable Connector (ST, SC, LC)
- Breakout Kit Installation
- 10GX Solution Overview
- Reference Materials
- 75% In-Class Exercises

**Prerequisite:** None

**Written Exam:** No

**BICSI CECs:** RCDD (14),  
INS, Level 2/Technician (14)

## Belden IBDN Training

### Course Descriptions

#### Belden IBDN 726

##### Belden IBDN Copper Products

(1 day)

##### Who Should Attend:

Structured Cabling Installers

##### Course Benefits:

Gain the ability to install copper structured cabling systems.

##### What Will be Covered:

- Belden Company Overview
- Belden IBDN Systems and products:
  - GigaFlex Cable: 1200, 2400, 4800LX,
  - Bonded-Pair Cable: DataTwist 350, MediaTwist, DataTwist 600e,
  - GigaBIX
- Installation Preambles for Belden IBDN Systems
- Work Area Products Installation:
  - GigaFlex Modules, Face Plates and Workstation Outlets
- BIX and GigaBIX Solutions:
  - IDC System Installation
  - Wall-Mount, Rack Mount Patch Panel System Installation
- Modular Jack and Patch Cord System
- High Density PS5E/PS6+ Patch Panel System
- PS5E Patch Box and Multi-user Box
- PS5E DVO Outlets, MDVO Adapters and EZ-MDVO Modules
- 10GX Solution Overview
- Reference Materials
- 75% In-Class Exercises

**Prerequisites:** None

**Written Exam:** No

**BICSI CECs:** RCDD (7),  
INS, Level 2/Technician (7)

#### Belden IBDN 746

##### Belden IBDN Fiber Product

(1 day)

##### Who Should Attend:

Structured Cabling Installers

##### Course Benefits:

Gain an understanding of the principles behind Optical Fiber cabling media.

Gain the ability to install Optical Fiber components and solutions.

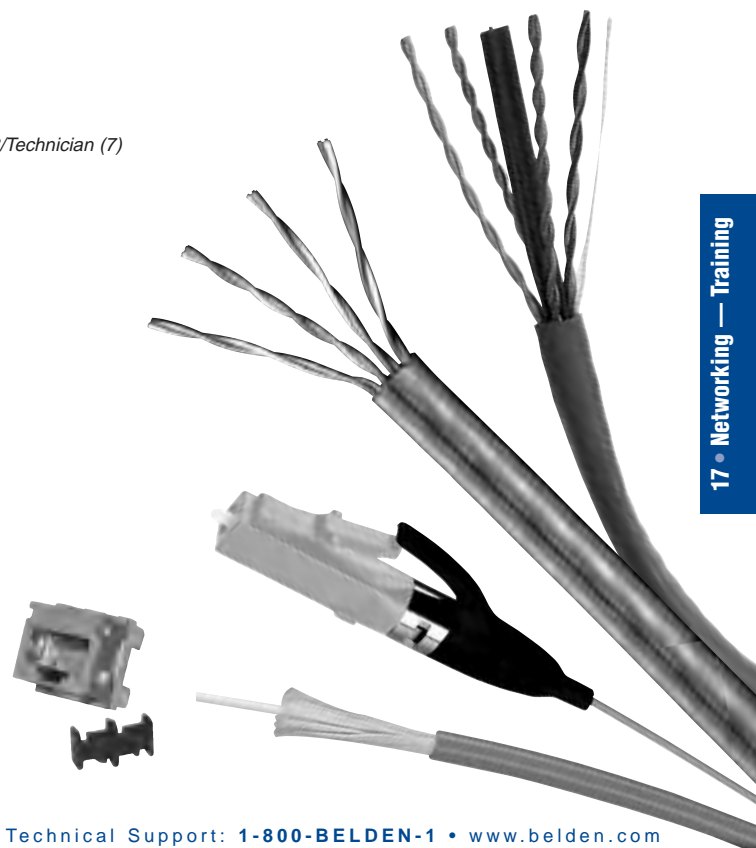
##### What Will Be Covered:

- Belden Company Overview
- Optical Fiber Overview
  - Belden IBDN FiberExpress System and products
  - Products Overview, Fiber Termination, (1U/2U), (3U) and (4U) Patch Panel Installation
- OPTIMAX Field Installable Connector (ST, SC, LC)
- Breakout Kit Installation
- Reference Materials
- 75% In-Class Exercises

**Prerequisite:** None

**Written Exam:** No

**BICSI CECs:** RCDD (7),  
INS, Level 2/Technician (7)



## Belden IBDN Training

### Course Descriptions

#### Belden IBDN 727

##### Belden IBDN End-to-End Installation and Testing — Copper Media

(2 days)

#### Who Should Attend:

Belden Channel Partners or Employees

Contractors, technicians, supervisors, engineers and designers

#### Course Benefits:

Learn detailed installation methods of key copper Belden IBDN System components.

Learn appropriate methods and procedures of testing copper Belden IBDN Systems.

#### What Will Be Covered:

- Review Belden IBDN Systems and key copper components
- Basic balanced twisted-pair transmission and performance theories
- Installation practice reviews
- Installation and testing of end-to-end systems
- In detail, installation methods of:
  - Copper Belden IBDN Systems components,
  - Belden IBDN 1200, 2400 and 4800LX Systems including:
    - GigaFlex Cable: 1200, 2400 and 4800LX,
    - Bonded-Pair Cable: DataTwist 350, MediaTwist, DataTwist 600e
- Learn testing methods of Belden IBDN Systems and how to troubleshoot typical problems
- Understand the correlation between:
  - Basic theories of end-to-end system transmission,
  - Component and system installation practices,
  - Test results and system performances
- 10GX Solution Overview
- 90% In-Class Exercises

**Prerequisite:** None

**Written Exam:** Yes

**BICSI CECs:** RCDD (14),  
INS, Level 2/Technician (14)

#### Belden IBDN 747

##### Belden IBDN End-to-End Installation and Testing — Optical Fiber Media

(2 days)

#### Who Should Attend:

Belden Channel Partners or Employees

Contractors, technicians, supervisors, engineers and designers

#### Course Benefits:

Learn detailed installation methods of key Belden IBDN FiberExpress System components.

Learn appropriate methods and procedures of testing Belden IBDN FiberExpress Systems.

#### What Will Be Covered:

- Review Belden IBDN FiberExpress Systems and key fiber components
- Basic optical fiber transmission and performance theories
- Installation practice reviews
- Installation and testing of end-to-end systems
- In detail, installation methods of:
  - Belden IBDN FiberExpress System components,
  - Belden IBDN FiberExpress Systems including: Multimode (FX300, FX600 and FX2000) and Single-mode systems
- Learn testing methods of Belden IBDN Systems and how to troubleshoot typical problems
- Understand the correlation between:
  - Basic theories of end-to-end system transmission,
  - Component and system installation practices,
  - Test results and system performances
- 90% In-Class Exercises

**Prerequisite:** None

**Written Exam:** Yes

**BICSI CECs:** RCDD (14),  
INS, Level 2/Technician (14)

