

## BICSI Installer 1

**Length:** 5 Days

**Summary:** Participants sitting for the ITS Installer 1 exam must be able to distinguish between different colors and possess manual dexterity to complete fine motor tasks.

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### COURSE CONTENT

#### **Installation Foundations**

Module 1 establishes the fundamentals of information technology systems (ITS) installation practices, and it recommends strategies for enhancing professionalism in the ITS workplace. This chapter provides ITS installers with information related to industry terminology, copper cable and optical fiber cabling media, and communications/customer relations best practices. This chapter is divided into two sections: Transmission and Professionalism.

#### **Safety Procedures**

Module 2 describes important safety practices and procedures for ITS installers and work sites. Included in this chapter are guidelines for the personal safety of the ITS installer and for maintaining equipment and work areas.

#### **Cabling, Pathways and Spaces**

Module 3 prepares ITS installers for working with structured cabling systems and installing cable support structures. Information is also provided on the administration of structured cabling systems, various topologies and telecommunications spaces. This chapter is divided into five sections: Structured Cabling Systems, Administration of Structured Cabling Systems, Topologies, Telecommunications Spaces and Installing Cable Support Structures.

#### **Bonding, Grounding (Earthing) and Electrical Protection**

Module 4 offers important guidelines for bonding, grounding (earthing) and electrical protection, and practices to ensure personal safety and code compliance.

#### **Copper Structured Cabling Systems**

Module 5 explores copper cable structured cabling systems, with emphasis placed on global best practices for the procedures for pulling, splicing, terminating, testing and troubleshooting balanced twisted-pair cable. This chapter is divided into six sections: Cables and Connecting Hardware, Pulling and Installing Cable, Splicing Cable, Cable Termination Practices, Testing Cable and Troubleshooting Cable.

#### **Optical Fiber Structured Cabling Systems**

Module 6 supplies ITS installers with detailed information about optical fiber structured cabling systems, and includes the procedures for accessing and pulling cable, as well as splicing, testing and troubleshooting these systems. This chapter is divided into six sections: Cables and Connecting Hardware, Pulling and Installing Cable, Splicing Cable, Cable Termination Practices, Testing Cable and Troubleshooting Cable.