In-Building Public Safety Communications Certification

Design Content Outline

Design Technician

The candidates for NICET certification in the Design of In-Building Public Safety Communications should have the knowledge, experience, and advanced skills needed to work in the industry. Working independently, they apply drafting skills and radio frequency theory to prepare plans for in-building public safety communications using project specifications, documents, and site survey data and design tools. Design technicians have at least 2 years of experience in the design of in-building public safety communications.

1.1 Defining the Project Scope

(Questions related to these tasks make up 15-25% of the exam.)

1.1.1 Review and interpret project specifications. 1, 2, 3, 4

1.1.2 Review and interpret project drawings and site survey reports. 1, 2, 3, 6, 8

1.2 Evaluating RF Signal Strength and Quality

(Questions related to these tasks make up 25-35% of the exam.)

1.2.1 Understand potential RF interference. 1, 2, 3, 4

1.2.2 Consider all field observations in design. 1, 2, 3, 5, 6

1.2.3 Interpret RF signal strength and quality results. 2, 3, 4, 6, 10

1.3 Designing the System

(Questions related to these tasks make up 45-55% of the exam.)

1.3.1 Entering parameters into system design applications. 1, 3, 4, 6

1.3.2 Select system equipment. 1, 3, 4, 5, 6, 12

1.3.3 Plan headend (e.g., equipment selection, cabling, etc.). 1, 2, 3, 4, 6

1.3.4 Determine system layout. 1, 3, 4, 5, 11

1.3.5 Create bill of materials (BOM). 1, 2

1.3.6 Generate submittal packages. 2, 3

August 2021 footnote number is linked to a reference on the Selected General References listing