

**MultiPath™ Intercom/Paging System Installer Training**  
**(16 Hours)**  
**14 BICSI CEC's for RCDD**  
**12 BICSI CEC's for Installation**

The Valcom MultiPath™ Communications System is an advanced intercom/paging/building management system capable of providing end-to-end communication, tones and music to up to 360 individual areas within a facility. The object of the MultiPath™ Intercom/Paging System Installer Training class is to provide familiarity with the hardware, installation, setup and programming of the Valcom MultiPath™ Communications System. Class content includes product descriptions, specifications, applications, programming and “hands on” reinforcement of the material covered. Upon successful completion, attendees will be capable of performing a turnkey installation from mounting the equipment to training the end user. The class covers the discussion of the following topics:

**I. Introduction to Valcom's MultiPath™ Intercom/Paging System: (1 Hour)**

- A. System overview with MultiPath™ Demo and PowerPoint
- B. Performance Spec

**II. Introduction to Valcom MultiPath™ Boards: (2 Hours)**  
**General physical and functional description**

- A. Card Addressing
- B. V-TCM 24 Point Talkback Intercom Expansion Card
- C. V-URI Universal Relay Interface
- D. V-SER Serial Card
- E. V-DSP Large Display Package
- F. V-CLK Clock Control Interface Package
- G. V-CPU4 System CPU Card w/2 V-SLC Cards (4 links)
- H. V-PDP Program Distribution Panel

**III. Installation Guidelines: (2 Hours)**

- A. Mounting Configurations
- B. New vs. Existing Speakers
- C. 45 Ohm Volume Level Jumper
- D. Checking speaker lines with an impedance meter
- E. New vs. Existing Wiring
- F. Wiring (max runs, wire gauge, amp vs. HF)
- G. Grounding
- H. Back plane cable
- I. Back plane terminator
- J. Typical Wiring
- K. Typical MDF - cross connecting stations
- L. Typical IDF
- M. One-way speakers in common areas
- N. PBX Integration
- O. Addressing
- P. Power up (LED behavior during power up)



- Q. Dedicated AC CKT
- R. Power supply > 36" away from main equipment
- S. Hot swapping
- T. System Balancing/Using A Sound Level Meter
- U. Volume Control In Call Switches
- V. Surge Protection
- VI. Troubleshooting

**IV. Special Applications: (1 Hour)**

- A. V-URI, Universal Relay Interface
- B. V-URI precautions
- C. V-URI Applications
- D. Address Switch

**V. Configuration: (2 Hours)**

- A. MultiPath™ Site Information Questionnaire exercise
- B. Configuration Tool

**VI. MultiPath™ System Programming (3 Hours)**

- A. Go through each menu
- B. Print Reports
- C. Comport Setup
- D. Remote Programming Options

**VII. Review MultiPath™ Administrative Tool (0.5 Hour)**

- A. Discuss the importance of uploading customer data as a basis for changes
- B. Go through each menu
- C. Print Reports
- D. Comport Setup
- E. User Manual

**VIII. Final Exam Programming/Hands- On (4.5 Hours)  
Upload Exam Programming and check exam**

- A. Admin Tool
- B. Music Distribution
- C. Forcing Relays
- D. Dialing Tones
- E. SMDR in HyperTerminal
- F. Crisis Mode
- G. Test Rooms
- H. All other dial codes

