



**COST: \$995** per person

#### CERTIFICATION

HiBS: Hirschmann Industrial Backbone Specialist

#### CONTACT INFORMATION

For questions, please contact **Derek Washington**:  
phone: **765-983-5735**  
or email: [Derek.washington@belden.com](mailto:Derek.washington@belden.com)



#### WHO SHOULD ATTEND

System Engineers, Network Designers and Support Technicians

#### PREREQUISITES

Previous attendance of CT1, CT2, CT3 and CP1 courses OR passing grade on HIES, HiNP, HiRP and HiRS exams is required. The participant should bring a laptop with Ethernet connection and an operating system CD. Administrator rights are required.

#### OBJECTIVE

Participants explore the details of MACH and PowerMICE Layer 3 functionality in a modular format that starts with lecture and ends with practical exercises. Upon completion of the course, participants will understand the functions and deployment possibilities of the products discussed.

#### COURSE INCLUDES

- 3 days of training (Wed-Fri)
- Breakfast and lunch
- Hard and soft copy of training materials
- HiBS exam voucher
- Complimentary exam voucher for first renewal of HiBS

#### COURSE CURRICULUM

##### Firmware Segmentation

- Layer 3 Enhanced
- Layer 3 Professional

##### Router Interfaces

- Port based
- VLAN based

##### Configuring Unicast Routing

- Static routing
- RIP - Routing Information Protocol
- OSPF Protocol - Open Shortest Path First
- VRRP - Virtual Router Redundancy Protocol
- Tracking objects

##### Configuring Multicast Routing

- DVMRP - Distance Vector Multicast Routing Protocol
- PIM-DM - Protocol Independent Multicast - Dense Mode
- PIM-SM - Protocol Independent Multicast - Sparse Mode

##### Access Control Lists (ACLs)

- Filter rules
- Queue assignment

##### Quality of Service (QoS)

- Weighted fair queuing
- Traffic shaping



## HIRSCHMANN

A **BELDEN** BRAND

View schedule and registration:  
[www.beldentraining.com](http://www.beldentraining.com)