

**Warning:** Undefined array key 0 in `/var/www/vhosts/amatrol.com/httpdocs/wp-content/themes/kallyas-child/dkpdf/dkpdf-index.php` on line **164**

**Warning:** Trying to access array offset on value of type null in `/var/www/vhosts/amatrol.com/httpdocs/wp-content/themes/kallyas-child/dkpdf/dkpdf-index.php` on line **164**

**Warning:** Trying to access array offset on value of type null in `/var/www/vhosts/amatrol.com/httpdocs/wp-content/themes/kallyas-child/dkpdf/dkpdf-index.php` on line **165**

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Fundamentals of Network Security - W33764-AA01XEN-E1

Objective 3: Describe the Basic Operation of a Virtual LAN

### VLAN Advantages

VLANs handle data between devices on different physical networks more **efficiently** than transmitting it between network routers. In addition, the data is more secure since it is only sent to devices with VLAN membership.

### VLAN 1 Devices

The diagram shows a central router connected to three switches. Each switch has multiple ports connected to various devices (laptops, servers, printers). The diagram illustrates how VLANs are used to segment the network across different physical devices and locations.

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This system teaches Ethernet (Allen-Bradley) network security a Smart Factory manufacturing environment covering the fundamentals of network security. Learners will study the function of industrial network security, the basic operation of a virtual LAN, how to configure VLAN using a managed Ethernet switch, and how to configure the port security of a managed Ethernet switch.

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## Multimedia

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### Engaging, Highly-Interactive Multimedia

Amatrol's curriculum features a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. The combination of theoretical knowledge and hands-on skills solidifies understanding and creates a strong basis for pursuing more advanced skills.

Click on the image below to view Amatrol's eLearning demo:

### Anytime, Anywhere Access Promotes Self-Paced Learning

In today's fast-paced, technology-driven world, it's more important than ever to extend the reach of industrial skill training beyond the borders of traditional classrooms. Amatrol's eLearning meets the challenge for flexibility by offering in-depth, comprehensive technical skills training via an intuitive, easy-to-use web-based Learning Management System (LMS).

With anytime, anywhere online access, Amatrol's eLearning allows learners to set their own pace at home, on the job, in a traditional class setting, or a blended approach of these options. Click here to learn more about [Amatrol's eLearning and LMS](#).

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