

Electrical and Controls Module Level 2

Networking and Communications

General Information

Course Number: M-108
Format: Instructor led
Length: 4 hours
Maximum Students: 8

Audience

This course is for maintenance technicians, supervisors, and people who support the conveyor system.

Customer Requirements

A room with a projector and a marking board with markers

Prerequisites

- A general knowledge of mechanical and electrical systems
- A general knowledge of safety and Lockout/Tag out procedures
- A working knowledge of tools and test equipment

Benefits

This course is designed to increase knowledge and skills to safely identify networking and fieldbus issues.

Course Objectives

Upon completion of this course, the student should be able to:

- Describe the general rules of communications
- Describe the troubleshooting steps for Ethernet
- Describe the troubleshooting steps for fieldbus

Topics

1. General

1/2 Hour

- a. Safety

2. General Rules

1/2 Hour

- a. Addressing
- b. Protocol
- c. Baud rate

3. Ethernet

1 Hour

- a. Troubleshooting

4. Fieldbus

2 Hours

- a. Profibus troubleshooting
- b. ASi troubleshooting
- c. DCan troubleshooting