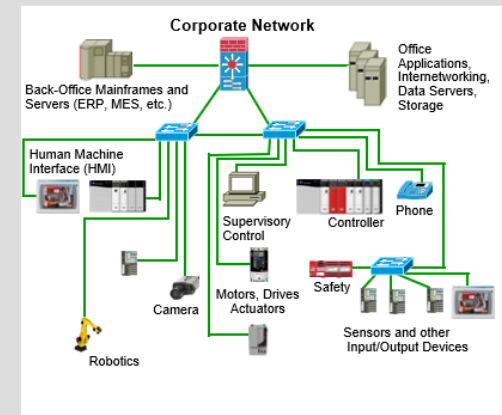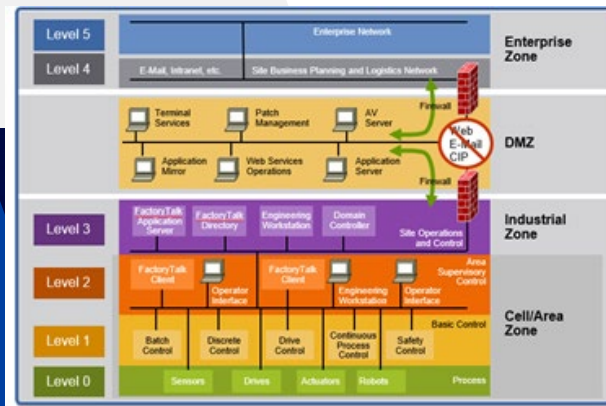# REXEL

## Networks 101

## Basics of Industrial Ethernet

This basic introduction to industrial Ethernet will provide you an understanding of the key terms and issues to consider when working with OT Ethernet networks.   You will also get a chance to get some hands-on experience with configuring a Rockwell Automation Stratix industrial switch.



**Converged Ethernet Industrial Network Model**

- April 2, 8 AM to 1 PM
- $400 per person
- Location: Rexel Fresno
        4690 East Jensen Ave, Fresno
- Please bring your laptop (if possible)

**Rockwell Automation**

### AGENDA

**8:00AM – 10:15 AM**

Legacy Fieldbus vs. Ethernet
What is Ethernet? (The 7 Layer Model)
Ethernet Media (Copper vs Fiber)
MAC Addresses and IP Addresses
IP Addresses-IP v4
Switches-OSI Layer 2
Network Segmentation Basics
Resiliency Protocols and Redundant Topologies
Network Address Translation (NAT)
DHCP Port Persistence and Automatic Device Configuration (ADC)
IP Routing-OSI Layer 3
Differences Between OT and IT Networks
OT Cybersecurity Basics

**10:15 AM – 12:00PM**  Hands-On Virtual Lab: Basic Configuration of a Stratix industrial switch

**12:00PM – 1:00 PM**  Lunch and Network/Cyber Presentation

Please inquire with your Rexel Services Specialist about a quote for the class

Please click the QR code  for more information about out training classes:
: