SIEMENS

102 Systems Essentials for Technicians Upskill (SET Up) (US-R-SETUP)

Type

Online Self-Paced Learning

Duration and Continuing Education Units (CEU)

1 Hours
0 CEUs

Target Group

- Operators
- Maintenance Technicians
- Reliability Engineers
- Others

Short Description

This online course builds foundational systems knowledge for personnel working in modern manufacturing and automated production environments. Participants develop awareness across the core technical domains found in integrated operations, including electrical, mechanical, fluid power, and control systems.

The course also introduces industrial networking, cyber security awareness, digital operations, data visibility, and robotics to support a broader understanding of connected production environments. Together, these topics establish a common technical foundation and shared vocabulary for participation in production, maintenance, and cross-functional system discussions.

Objectives

- Recognize safety practices that support personnel and equipment protection
- Identify the roles and functions of electrical, mechanical, fluid power, control, and connected system elements
- Describe how key systems and components support production operations
- Recognize how industrial networks and connected devices enable system communication
- Recognize cyber security risks and safer practices when working with connected systems
- Describe how operational data supports visibility, communication, and decision-making

Content

- Industry Foundations
- Electrical Fundamentals
- Mechanical Systems
- Pneumatic & Hydraulic Systems (Fluid Power)
- Digital Logic & PLCs (Control)

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- Industrial Networking & Connectivity
- Cyber Security Awareness
- Digital Operations & Data Visibility
- Robotics & Automation

Note

Prerequisites

▪ Successful completion of Orientation for Systems Essentials for Technicians Upskill (SET Up) (US-SETUP)

▪ Mechanical Aptitude

▪ Basic Math Skills

This program establishes the foundational technical knowledge required for the Integrated Operations: Systems Essentials for Technicians (ISET) program, where participants apply and integrate these concepts through hands-on, instructor-led training as part of the Siemens MSA Level 1 (Certified Mechatronic Systems Assistant) certification pathway.

Participants must achieve a minimum score of 70% on each module assessment and the final assessment to successfully complete the program and become eligible to enroll in US-R-ISET, Integrated Operations: Systems Essentials for Technicians (ISET).

Language

English

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