

Kepware KEPServerEX Industrial Internet of Things (IIoT)

Learn to connect, configure and manage industrial devices with KEPServerEX, from OPC UA and diagnostics to IIoT and ThingWorx integration.

32 Hours

DURATION

8

MODULES

24

TOPICS

COURSE OVERVIEW

This comprehensive course provides in-depth knowledge and practical skills in industrial connectivity and data management using Kepware's KEPServerEX. You'll learn how to connect, collect, and manage data from a wide range of industrial devices, optimize your data communications, and harness the power of the Industrial Internet of Things (IIoT) for better decision-making. Gain the expertise needed to excel in the field of industrial automation and data integration.

WHO THIS COURSE IS FOR

This course is designed for industrial engineers, automation professionals, system integrators, and anyone interested in industrial connectivity and data management. It is suitable for both beginners looking to build a strong foundation and experienced professionals seeking to enhance their skills with KEPServerEX

PREREQUISITES

- Basic understanding of industrial automation concepts
- Familiarity with computer systems and networking fundamentals

LEARNING OBJECTIVES

By the end of this course, participants will be able to:

- Install and license KEPServerEX for industrial data connectivity
- Connect and manage various industrial devices, including PLCs and more
- Optimize data communications and troubleshoot issues effectively
- Explore OPC and OPC UA technologies for secure data transfer
- Implement data redundancy and high availability solutions
- Utilize KEPServerEX for Industrial IoT (IIoT) applications
- Establish web and database connectivity for efficient data management
- Integrate KEPServerEX with ThingWorx for advanced IoT solutions

8 Modules, 24 Topics

01

Introduction to KEPServerEX

TOPICS

- Understanding the role of KEPServerEX in industrial automation
- Exploring the KEPServerEX ecosystem
- Installing and licensing KEPServerEX

02

Device Connectivity

TOPICS

- Connecting PLCs and various industrial devices
- Configuring drivers and protocols for device communication
- Simulating devices for testing and development

03

OPC and OPC UA

TOPICS

- In-depth exploration of OPC (OLE for Process Control) and OPC UA
- Implementing secure data transfer with OPC UA
- Tunneling data for remote communication

04

KEPServerEX Essentials

TOPICS

Navigating the KEPServerEX user interface · Configuring data sources and tags · Data logging and event handling

05

Diagnostics and Optimization

TOPICS

- Diagnosing and troubleshooting common issues
- Strategies for optimizing KEPServerEX performance
- Real-time and historical data analysis

06

Redundancy and High Availability

TOPICS

Ensuring data redundancy and fault tolerance ·
Implementing backup strategies · Failover and
recovery mechanisms

07

Industrial IoT (IIoT) Integration

TOPICS

Understanding IIoT in the industrial context ·
Leveraging KEPServerEX for IIoT connectivity · IoT
data analytics and reporting

08

Advanced Connectivity

TOPICS

- Connecting to web-based applications and services
- Integrating KEPServerEX with databases
- Exploring ThingWorx connectivity for advanced IoT solutions

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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