CONTROLEDGE PLC/RTU ADVANCED PROGRAMMING LOGIC (FUNCTION BLOCK DIAGRAM)

| Honeywell PMC Academy

COURSE OVERVIEW

This course offers advanced training in programming ControlEdge PLC/RTU using Function Block Diagrams (FBD). Participants will explore Honeywell's function block libraries including HWFBLib, FuncLib, and specialized blocks for Ethernet/IP, HART, Modbus, and OPC UA. The course also provides a focused overview of the OPC UA Protocol, covering its role in secure, scalable, and platform-independent industrial communication.

By the end of this course, participants will be equipped to design and implement advanced control strategies using FBD in ControlEdge PLC/RTU. They will gain hands-on experience with diverse function blocks and understand how to configure and apply the OPC UA Protocol for seamless device and system integration. This training enhances control flexibility, data connectivity, and system interoperability in modern automation environments.

COURSE DURATION

- 1.5 Days

TARGET AUDIENCE

Process Engineers

HANDS-ON TRAINING

Hands-on Training will be arranged during the session.

CERTIFICATE

Participants certification will be issued at the end of the course.

KEY LEARNING OBJECTIVES

Participants will learn to:

Function Block Diagram (FBD)

- Overview of Honeywell Function Blocks
- Ethernet/IP Function Blocks
- HWFBLib and Func Lib
- HART and Unit Conversion Function Blocks
- Utility FB Libraries
- Modbus FB and User-Defined FBs
- OPC UA FBs and HonUAFb Helper

Protocol Module Overview (Anyone Protocol)

- Participants will gain an overview of one of the following industrial communication protocols:
- DNP3 Protocol
- Modbus Protocol
- User Defined Protocol
- OPC UA Protocol
- Ethernet/IP Protocol
- MQTT Protocol
- MQTT Protocol
- HART-IP Protocol
- CDA Responder Protocol
- IEC60870-5-104 Outstation Protocol
- PROFINET Protocol

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Function Block Diagram | Rev 1 | 09/2025

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