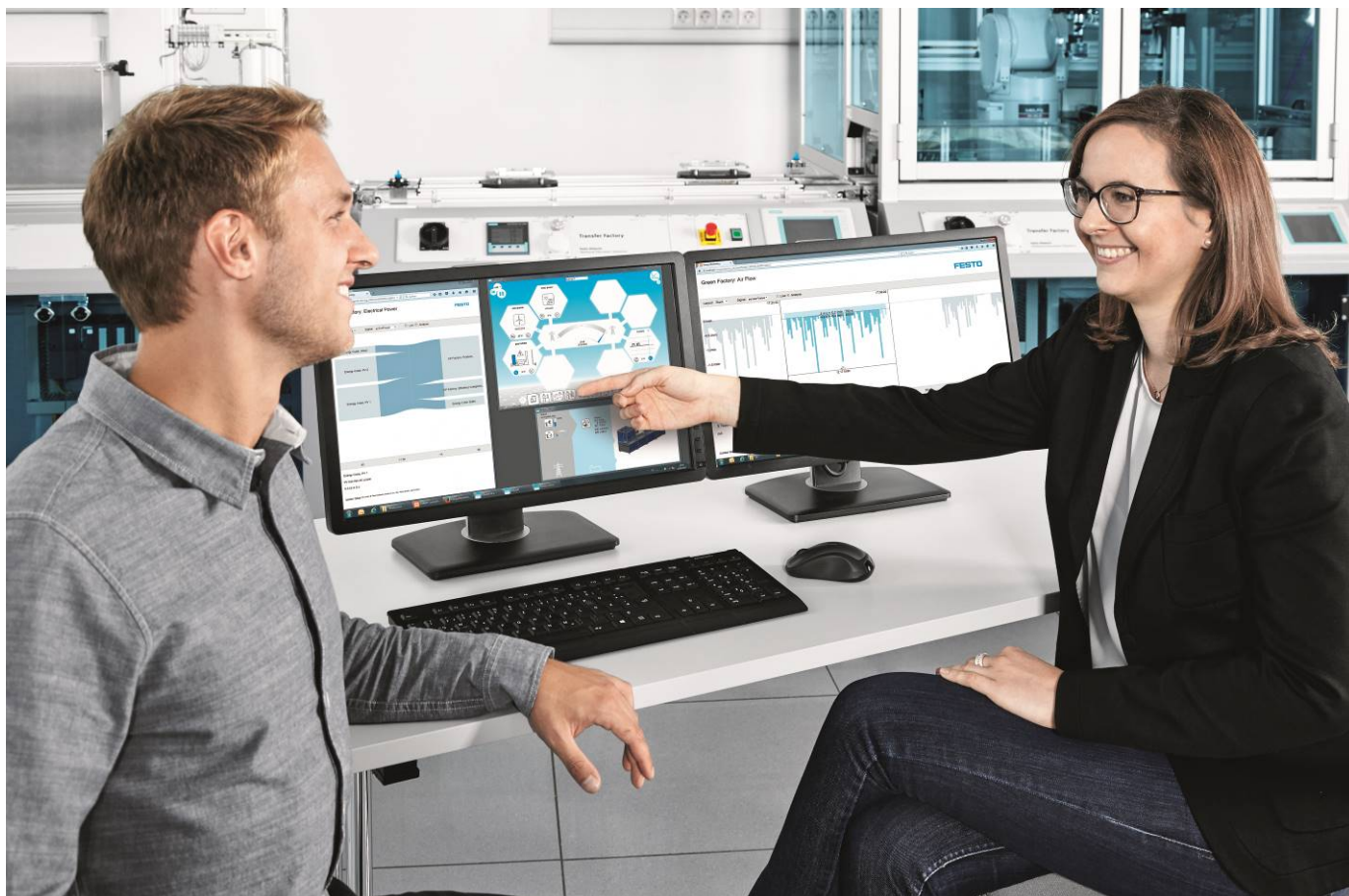


# Festo Training and Consulting

## From industry – for industry

**FESTO**



PLC281

### **CODESYS version 2 – A hardware independent introduction to PLC programming**

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Flexibility despite a high degree of automation is one of the most important challenge in manufacturing companies. It demands the integration and networking of different controls in a complex automation system. This is complicated by the huge variety of programming software available. Differences in user-interfaces, functionality and command sets cause confusion and make mistakes more likely.

CoDeSys is a tried-and-tested, globally introduced and hardware-independent software from 3S. It constitutes a Controller Development System according to the IEC 61131-3 with all defined programming languages independent of the hardware manufacturer. This training demystifies CoDeSys and gives participants confidence in using it.

PLC281

**CODESYS version 2 – A hardware independent introduction to PLC programming**

**Training content**

- Overview of the standard IEC 61131-3
- Introduction to the CoDeSys programming environment
- Use of the programming languages IL, ST, LD, FBD, SFC, CFC
- Use of visualization
- Working with simulation
- Functions, function blocks and libraries
- Conversion of PLC programs
- Use of variable and symbolic operands
- Using the Help function
- Aids to troubleshooting

**Training outcomes**

After completing this training course, the participants:

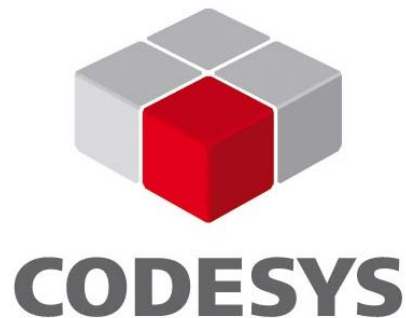
- can explain the scope and potential of CoDeSys
- can explain the positioning of CoDeSys in relation to other programming environments
- can identify which products can be programmed with CoDeSys
- can select appropriate language for a specific task and combine them to a complete project
- can create a basic simulation based on the internal SoftPLC from CoDeSys and test programs
- can create a basic visualization

**Target group**

Maintenance, Engineering/Design,  
Educational Staff/Trainer

**Duration**

2 days



All Festo Didactic training courses offer the following additional benefits:

- Post-tests can additionally be used to monitor the training effectiveness
- Our trainings can be customized and carried out worldwide (on demand)
- Trainings take place with real industrial components, used in a safe environment
- Our trainers are certified according to our internal trainer qualification „Festo Certified Training Professional“ and have many years of industrial experience