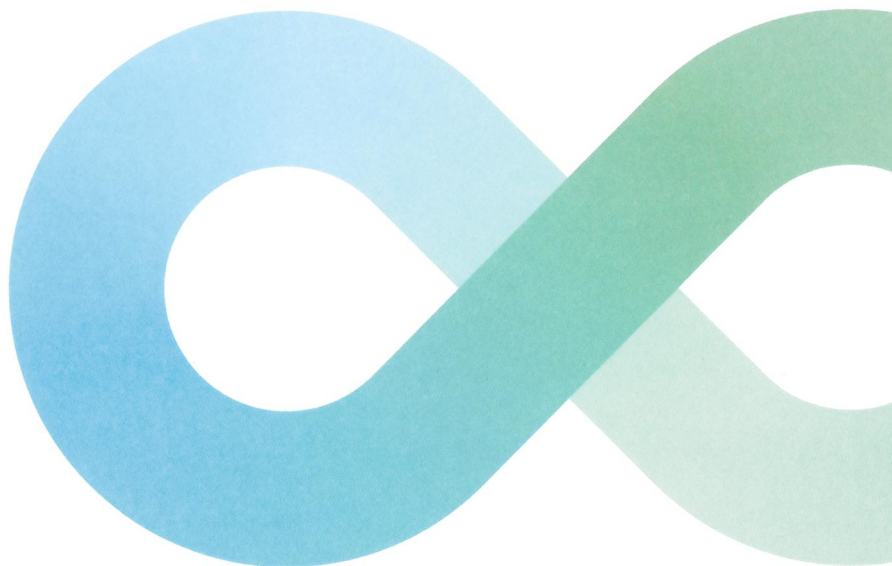




SITRAIN – DIGITAL INDUSTRY ACADEMY

Certificate

For

Zsolt Béla Varga

Who participated in the

SINAMICS S120 Parameterization and Commissioning in TIA Portal with Startdrive training

(DR-S12-TIA)

Between 2026.05.11-05.15., on behalf of Schaeffler Special Machinery Kft.

The central topics of the training were the following:

- Structure and operating principles of the SINAMICS S120 system
- Control unit, line infeed, and motor modules
- Motors, encoders, and interfaces
- Parameterization, data backup, and diagnostics in TIA Portal using Startdrive
- Online connection via PROFINET and Ethernet
- Project structure: drive objects and drive components
- Setpoint channel, input and output signals
- Control signals and internal signal interconnection using BiCo technology
- Optimization of closed-loop control using automatic procedures
- Operating principles of Servo and Vector modes
- Analysis of operating states using enable signals, warnings, and alarms
- Graphical signal monitoring (trace function)
- Introduction to positioning and the use of integrated safety functions
- Data exchange with SIMATIC S7 via PROFINET using PROFIdrive Standard Telegrams

Budapest, 2026.05.15.

Training Services Hungary

Adult Education Registration Number: B/2020/004655

SIEMENS