

PSIcontrol – Process Interface Technology Basics (SKUSPIF)

This training is designed for persons who manage, start up, and test the process interfaces of the network control system PSIcontrol. It is also recommended for persons who work in the process interface environment of network control systems and who want to acquire insight into the devices and functions as well as their handling. This training provides an overview of the process inter-face options and devices which are available in PSIcontrol.

The participants learn about the PSI process interface products (telecontrol gateway/TCG, TIG, TCG-VM, STU-TCG and variants) and their applications. In addition, they learn how to (initially) install the generated base configuration on a telecontrol gateway and how to update individual components. Furthermore, the training explains how to exchange and replace individual components and how to analyze errors and test operations with the available PSI analysis tools.

After completing the training, the participants will have comprehensive knowledge about the functionality of the above products with emphasis on the types which are installed in the own network control system. It will enable the participants to configure these products, to adapt set-tings temporarily, and to load the current data model. They will also be able to use the PSI analysis tools such as prstat, fwptool, irectool, mwzw, trace, and tcpdump.



Contents:

- Core configuration of PSIcontrol and process interface
- Process interface tasks
- The actual device family PSIcontrol (telecontrol gateway/TCG, TIG, TCG-VM, STU-TCG),
 - Available hardware options and settings as well as
 - security support and settings
- The telecontrol data structures and overview of
 - The IEC-104 protocol,
 - The structure of ASDUs, and
 - Comparison with a serial protocol based on IEC-101
- Processes and monitoring
- System environment and network basics
- Operating and loading the products with Master load
- Hands-on exercise for exchanging TCG components
- Presentation and hands-on exercise with the process interface analysis tools (prstat, fwptool, irectool, mwzw, etc.)
- Monitoring of the connections and the connection establishment to the network control system and the connected RTUs, telecontrol channels, station data, and process elements



Duration:	2 days
Training location:	Aschaffenburg, Boschweg 6
Language:	English
Target group:	Persons who manage the PSIcontrol process interface, persons working in the process interface environment of network control systems, trainers, testers
Prerequisite:	Basic knowledge of networking and process interfaces PSIcontrol – Data Engineering of the IT Network (SKUDE3)
Training materials:	Presentation slides
Min. number of participants:	4
Registration deadline:	6 weeks before start of the training
Prices, dates and registration:	https://www.psienergy.de/en/services/training/skuspif-psicontrol-process-interface-technology-basics/