

CERTIFICATE

Віталій Феденько

Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine

participated in akkodis workshops for Ukraine

HARDWARE ENGINEERING OF SWITCHGEARS AND ELECTRICAL FACILITIES

organised by Akkodis Germany Tech Experts

from 15th to 17th of May 2023 online on Teams platform

AKKODiS

Akkodis Germany Tech Experts GmbH
Äußere Sulzbacher Str. 16
90489 Nürnberg

Yaroslav Popov, PM Competence Energy

Nuernberg, 14/09/2023

Akkodis Germany Tech Experts GmbH

Attachment to Mr/Ms Vitalii Fedenko certificate

Akkodis workshops for Ukraine „Hardware engineering of switchgears and electrical facilities“ contained the following training program (lecturer Y. Popov):

- 1** International norms and standards for representation of electrotechnical documentation
- 2** Hardware engineering, hardware engineering of switchgears, its goals and implementation using modern digital control and protection devices
- 3** Modern CAD systems for electrotechnical documentation and its abilities in production automation. ELCAD as an example of CAD system.

Description of the learning outcomes:

Acquired knowledge

The certificate holder knows principles of hardware engineering of switchgears and electrical facilities, which ensure safe, reliable and durable operation of the facility during its lifetime. The certificate holder can read electrotechnical documentation created acc. to international standards and norms, such as IEC, DIN, VDE and recognizes modern CAD systems for representation of electrotechnical documentation, their common philosophy and principle of work and automation potential, which ensures efficient and high quality production of electrical facilities.

Hardware engineering of switchgears and electrical facilities workshop contained in total 24 hours of online classes.

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date and signature of organizer
Nuernberg, 14/09/2023