



BASICS OF POWER GRID OPERATION AND CONTROL

תיאור הקורס

Perhaps more than other industries, engineering for energy has become an increasingly complex process with demands for digitalisation and interconnected services and products in increasing. Thus, a fundamental understanding of utilities applications and energy digitalisation is essential for all systems engineers working in this domain.

The course provides the basics of energy systems, power grid and energy market operation principles, processes, models and trends, hence allowing participants to understand the development of the energy sector in the past years and in the near future. It also allows to understand the reasons and impacts of energy systems architectural changes.

תוצאות הלמידה

- ☐ Know the basics of power systems organisation, roles and their relationships.
- ☐ Gain a holistic view of processes in power grids.
- ☐ To understand the development scenarios and their impact on the energy system.

למי מיועד הקורס

- ❑ Managers
- ❑ Project Managers
- ❑ System Operators
- ❑ Software Engineers
- ❑ Software Architects
- ❑ Product Owners

Attendees must have basic training in Systems Engineering (e.g. SE Foundations).

מחירי הקורסים

Regular: 800 CHF

משך הקורס

1 day

המרצה



Dmitri Tchoubraev

Dr. Dmitri Tchoubraev has had different leading roles over the last 20 years in Swiss industry. He was responsible for the introduction of Swiss Ancillary Market services, engineering and operation of numerous business-critical systems of Swiss Transmission Grid National Control Center, establishing of Enterprise Integration and Solution Architecture at Swiss TSO.

Today he lectures, consults and mentors on the Power Utilities System Architecture, Energy Digitalisation and System Integration. His experience includes multiple applications of Project Management and Architectures Development in the area of complex heterogeneous IT System

Landscapes. He also teaches Utilities IT Systems and Substation Automation Systems at the Technical High School Fribourg, Switzerland and was an Assistant Professor on Power Utilities Systems and Processes for 10 years, at the University of Aerospace Instrumentation, St. Petersburg, Russia.

Dr. Tchoubraev has more than 20 years of experience as project and program manager and as operational manager in development, engineering, integration and operation of complex industrial systems for both government and private sector industries.

Dr. Thoubraev is author and co-author of 30 papers and author of the book "Information Technologies for Electromechanical and Power Systems".

In addition, he is specialised on the System Design based upon Mini- and Micro-Services and optimisation of Industrial Operational Environments using Design Thinking and Usability approaches.