



Introduction to hydropower plants

Hydropower plants are complex systems with highly specialized technology. Having an understanding of the principles of hydropower plants and the specialized equipment is useful for all managers, engineers and technicians working in hydropower plants. After participation, attendees shall be familiar with the types of

hydropower plants, the structure as well as the main technical components. Moreover, they shall understand the principle of hydropower production and know the developmental phases of a hydropower plant – from construction to modernization.

Course content

Introduction

- Types of hydropower plants
- A hydropower plant at a glance

Energy conversion by water turbines

- Functionality
- Components of water turbines
- Turbine governor

Power production in generators

- Functionality
- Generator components
- Excitation system

Overview of balance of plant, controls and protection

- Mechanical and electrical auxiliary systems
- Control, monitoring and protection of a hydropower plant

Developmental phases of a hydropower plant

- Construction
- Operation
- Maintenance, repair and modernization

Visit of the large turbine hall

Advantages

- + Expert with up-to-date specialist knowledge
- + Practical examples
- + Viewing the large turbine hall
- + Certificate of participation
- + Seminar handout

Trainer

Voith expert with many years' experience in all aspects of hydropower.

Target groups

Managers, engineers or technicians requiring a general overview of the equipment, operation and processes of a hydropower plant.

Minimum number of participants

5 participants

Participation fee

€800 plus VAT per participant, including documents, beverages and lunch

Voith Hydro GmbH & Co. KG
Maren Henkes
Customer Training Manager
Tel. +49 7321 37 6673

A Voith and Siemens Company

maren.henkes@voith.com
www.voith.com



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