

Hydropower Maintenance Expert Module 2: Focus on maintenance

Course content

Option 1: Electrical path

Aging processes, condition assessment, maintenance tasks and recent case studies on the following electrical components

- Generator
- Excitation
- Protection
- · Governor (hydraulic and digital)
- · Balance of plant electrical

Exemplary risk assessment and root cause analysis

Training in a Voith workshop (1 day)

Option 2: Mechanical path

Aging processes, condition assessment, maintenance tasks and recent case studies on the following electrical components

- Turbines
- · Governor (hydraulic and digital)
- · Balance of plant mechanical

Exemplary risk assessment and root cause analysis

Training in a workshop (1 day)

Duration, date and training venue

5 days, date to be agreed in Heidenheim an der Brenz, Germany

Learning objectives

- + Know aging processes and interpret equipment conditions
- + Estimate related risks for HSE and operation of the HPP
- + Understand relevant state-of-the art maintenance tasks
- + Know and evaluate instruments for continuous improvement
- + Link insights to a risk assessment and root cause analysis

Trainer

Various Voith experts with many years of experience in maintenance.

Target groups and prerequirements

Engineers who are responsible for electrical or mechanical maintenance of hydropower plant equipment.

Prerequirements:

- Electrical engineering qualification (Bachelors or Masters) for option 1 (electrical)
- Mechanical engineering qualification (Bachelors or Masters) for option 2 (mechanical)
- Attended training "Hydropower Maintenance Expert Module 1: Component know-how" or passed entry test

Maintenance management staff who want to understand maintenance tasks in detail. Prerequirements:

- Electrical engineering qualification (Bachelors or Masters) for option 1 (electrical)
- Mechanical engineering qualification (Bachelors or Masters) for option 2 (mechanical)
- Min. 5 years of working experience in power generation or attended training "Hydropower technology overview"

Price

24,900 EUR per module and option for 10 trainees*

*Including visit costs, lunch and refreshments; excluding WHT, VHT, travel and accommodation costs for trainees; validity date is 2021-02-28.

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