HydroSchool

HyService™ Education and Training

Training to Accelerate Experience

Voith Hydro's Customer Education and Training team includes Voith subject matter experts, is led by an instructional designer, and adheres to the Systematic Approach to Training (SAT) for course design, development, delivery, implementation and evaluation. Participants will receive a certificate of attendance, and course hours are eligible for professional development accreditation. Courses held at Voith locations will include a tour of the facility. Courses may be held at client sites and customized to your needs. Voith experts will provide case studies relevant to your organization.

Education and Training

Benefits of the Training to Accelerate Experience

- Accelerate knowledge, skills and needs of engineers, technical professionals and project specialists
- Keep your proficiency level up to date

SAT - Systematic Approach to Training

- Instructional design methodology and expertise
- Specific learning objectives
- Course outlines and lesson plans
- Classroom materials including handouts
- Workshop check-out quizzes and bench test
- Evaluations

Practical Content

- Case studies, samples and workshops
- Artifacts and models
- Videos and plant tours where possible

Voith Expert Instructors

- Experienced engineering know-how
- Exceptional practical skills
- Operating expertise

Customized Training

- Tailor-made course content
- Flexible course durations depending on needs and time availablity

Certification and Accreditation

- Professional development accreditation
- Participants will receive a certificate of attendance

Course List

1. Hydropower 101
2. Stator Winding Design, Manufacturing, Installation and Testing for Rotating Equipment
3. Generator Design
4. Generators: Effective Solutions Modernization and Rehabilitation
5. Turbine Design
6. Turbines: Effective Solutions for Modernization and Rehabilitation including Field Machining
7. Mechanical Balance-of-Plant System Designer Fundamentals
8. Hydraulic Governor Maintenance
9. Shaft Line Alignment for Hydropower Equipment
10. How Automation Improves Hydropower Plant Operation, Maintenance Reliability & Efficiency
11. Excitation Systems Introduction
12. Grid Stability and Energy Transition Through Pumped Storage Power Plants
13. Operational Plant Safety / Safety by Design Principles & Case Studies

Master Hydro Professional Program (MHP)

In addition to courses of one to two days, Voith Hydro can deliver a Master Hydro Professional Program of four “in depth” courses of approximately 40 to 80 hours each.

1. **Hydropower Plants**
   Design principles, operations and maintenance
2. **Hydraulic Turbines**
   Design concepts, operations and applications
3. **Hydraulic Generators**
   Design concepts, operations and applications
4. **Speed and Voltage Regulation**
   Theory and practice

North American and General Inquiries

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Engineered Reliability