

# CUSTOM ON-SITE TRAINING

"Learn From Our Experience"

## Background – Changing Needs:

Today, power generation companies face bigger challenges than at almost any time in recent history. Not the least of which are the significant changes in the workforce that are taking place. We've all seen the increase in Baby Boomer retirements and experienced the difficulties in attracting and retaining younger employees to replace them.

Here are just some of the key issues that employers are struggling with related to the changing workforce:

- Capturing and documenting knowledge
- Attracting, hiring and retaining new talent
- Motivating employees
- Achieving operational goals

To help address these challenges, MD&A is pleased to offer Custom On-Site Training to steam turbine-generator owners and operators. We leverage the diverse experience of our consulting engineers and Subject Matter Experts (SME) to provide instruction for your employees in any number of topics relating to the operation, testing, evaluation, and maintenance of steam turbine-generator equipment.

We can help you to achieve your business objectives through targeted, custom-designed training which meets your specific needs and budget. Don't wait. Now is the time to act!

## What We Offer:

MD&A engineering expertise lies in steam turbine-generator installation, commissioning, operation, testing/evaluation, maintenance, repairs, life extension, and retrofits. We have three decades of experience with equipment manufactured by all OEMs and have amassed extensive expertise in the following areas:

- Startup and Operations
- Maintenance and Repair
- Outage Planning and Management
- Thermodynamic Performance
- Alignment and Topless Laser Procedures
- Vibration Analysis and Balancing
- Generator Test, Evaluation, and Repair
- Controls and Excitation



## KEY FEATURES OF OUR APPROACH:



Our SMEs will streamline a training program to fit your needs. This can include varying levels of site-specific information, documented work process instructions and other job aids that your employees can use daily. And, being flexible will enable us to meet your critical needs while staying within budgetary constraints.

### You should consider Custom On-Site Training for:

- New unit Commissioning
- Startup and Operations Refresher
- Retrofit Commissioning
- Maintenance and Outage Planning

Typically, owners will wish to take advantage of a major inspection opportunity to retrain operators when equipment condition has just been restored or retrofitted.



Students commonly complain that, “the training was boring,” mainly because they weren’t actively involved in the learning process. Studies show that high involvement and interaction (student-to-student and student-to-teacher) during training can lead to better comprehension, retention and overall results. “Death by PowerPoint” just doesn’t work that well.

MD&A starts with a solid design process and builds training programs which give students much needed control over their learning experience. We can use pre-testing and post-testing as required and interject problem sets and interactive exercises to boost involvement.

A well-designed and delivered training program should have certain key elements to ensure high learner comprehension and retention. The way a course is designed and delivered is every bit as important as the content it addresses. Here are a few of these key elements:

- Thorough needs assessment
- Pre- and post-testing (recommended)
- Targeted learning objectives specific to your needs
- Interactive problem sets and active learning exercises where applicable
- Customer collaboration throughout the design process
- Work process design, documentation and other job aids where applicable

### Why Use Custom On-Site Training?

A one-size-fits-all approach to training isn’t always the best approach or what customers may need. **Custom On-Site Training** develops learning objectives and training which are specific to your needs, and whether your goals are improved reliability, faster startups or sustained efficiency, we can help you attain them!

### Why MD&A?

We deliver world-class training. We use career-experienced engineers and SMEs to achieve customized learning objectives. We do more than just teach; our engineers are on site for hundreds of outage events every year, allowing us to stay informed and involved with current turbine-generator operational issues.

We deliver results, not just training, so we invite you to **“Learn From Our Experience.”**

## MECHANICAL DYNAMICS & ANALYSIS

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