



# Expertise In Turbomachinery Optimization

## CCC On-Site Training Program



**Efficient**

**Effective**

### Instructor-Led Training

CCC provides classroom training sessions at your site, customized to your applications and control system design. Your teams will maximize their exposure to CCC turbomachinery experts and their in-depth knowledge of optimization and controls.

**Instructor-led Training** is one of the most efficient and effective ways to bring yourself up to speed on your CCC control system. You'll learn the fundamental principles, terminology, and functional design of your control system to maximize efficiency and minimize risk. Discover how gathering system diagnostics allows you to quickly troubleshoot issues or irregularities, which minimizes unplanned downtime, lowers costs, and improves productivity.

By comprehending the control environment and learning how your system design interacts with upstream and downstream processes, you'll maximize yields and product quality. The knowledge you gain will help you better understand system capabilities and limitations, so you can recognize potential improvements or prevent future issues.



# Operations & Maintenance Courses



## Control System Training for Operation

This one to two day course includes the following topics: turbocompressor systems and their descriptions, surge phenomenon and its consequences, the theory and techniques of surge control, specialized controller features, and the operation of the Anti-Surge control system. Other control applications such as Performance, Speed, and Extraction control are covered as required by your specific application. Simulation of surge and CCC control allows for students to pull together an immediate and visual affirmation of their new-found knowledge and abilities.

*For Operations, Maintenance, Instrumentation, DCS, I&E, Rotating Equipment, Process & Technology, Automation and Engineering personnel.*

## Control System Training for Maintenance

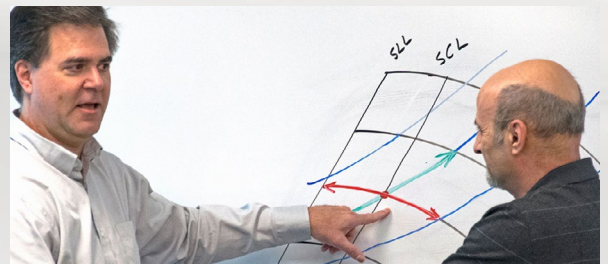
This two to four day course covers everything contained in the Operations Course, but also includes exact maintenance procedures for diagnosing and correcting problems using CCC software programs and maintenance tools. As with the Operations Course, this course includes hands-on opportunities for all participants using the simulation software and actual CCC controllers.

*For Maintenance, Instrumentation, DCS, I&E, Rotating Equipment, Process & Technology, Automation and Engineering personnel.*

## Other Courses

CCC's expertise extends well beyond providing high performance turbomachinery control applications and reliable platforms. From the basics of industry standards such as API 611/612/670, selection and installation of instruments and control elements, to process optimization strategies, our seasoned trainers will provide training on topics such as:

- Valve Sizing and Selection
- Final Control Elements & Output Variables
- Improving Compressor Performance
- Field Device & Piping Best Practices,
- And many more. Contact us for a full list of offerings



**You pick the date, venue, and the topic – we'll do the rest. For all plant personnel.**

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Schedule a Training Session at:  
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Have A Question? Need A Quote?  
**Contact us at:**  
[training@cccglobal.com](mailto:training@cccglobal.com)



**Expertise In  
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