

## **CLASS #108 – 505 / 505E Digital Steam Turbine Control**



### **Description**

This class will give the student the opportunity to learn more about servicing and commissioning the 505 / 505E steam turbine control. During this course, the student will learn about the theory, installation, programming, operation, and maintenance of the 505 / 505E control with a focus on how the unit operates in either an isolated bus (Islanded) or infinite bus (Utility) application or in a mechanical drive application. During this course the hardware and software configuration, monitoring and protection schemes are explained.

### **Class Objectives**

Upon successful completion of this course the student will be able to:

- Demonstrate an understanding of governor control theory pertaining to the 505 / 505E steam control system.
- Calibrate, program, and set-up the unit for applications such as mechanical drive or generator applications.
- Configure inputs for sensor or auxiliary functionality and control purposes.
- Configure outputs for meter drivers or alarm indication.
- Demonstrate the understanding of the various control modes: manual start, semi-automatic start and automatic start.
- Demonstrate the different types of control such as speed/load, cascade. Auxiliary, remote and extraction/admission control.
- Demonstrate an understanding of the operation and reason for a steam map.

### **Course Duration**

The course runs for three days and is conducted at our premises in Kingsgrove, NSW. We can offer this course as part of an on-site training program (details available on request). Class size is limited to a maximum of eight students.

### **Attainment**

A "Certificate of Attainment" is awarded to students who successfully pass a written examination.

*The instructor reserves the right to modify the class content to best suit the needs of the class.*