

2020 Open Enrollment Seminars

Evaluating and Improving Steam Turbine Performance: 4-1/2 days

This seminar is highly beneficial to anyone involved in measuring, maintaining and maximizing the performance of a steam turbine. It has been designed to present a clear understanding of the many cause-effect performance issues commonly encountered in nuclear, fossil and industrial power plants ranging from 25 to 1000 Megawatts. The background of attendees varies from Operators and Shift Supervisors to Performance Engineers to Designers and A&E Engineers.

Dates and locations

<u>Course number</u>	<u>location</u>	<u>dates</u>	<u>price</u>
511348-1-1	Orlando, FL	1/20 to 1/24/2020	\$2495

Steam Turbine Alignment: 3 Days

The Steam Turbine Alignment seminar teaches participants the theory and correct alignment practices for steam turbines-generators. Particular emphasis will be placed on large steam units. Various methods of alignment will be addressed including tight wire, laser, ERAG/CAT, Alignment Bar, and Lead Wire. Students also practice taking coupling readings and making rotor moves using custom designed simulators.

Dates and locations

<u>Course number</u>	<u>location</u>	<u>dates</u>	<u>price</u>
	Orlando, FL	1/7 to 1/9/2020	\$2195

Steam Turbine Fundamentals: 4-1/2 Days

This course is ideal for plant operations, maintenance, and engineering personnel interested in gaining broad understanding of turbine-generator design, operation, troubleshooting and maintenance. It is ideal for new engineers and/or those who are new to turbine-generator technology. The program is based on a large steam turbine design by GE®, but references are made to other OEMs as well.

Dates and locations

<u>Course number</u>	<u>location</u>	<u>dates</u>	<u>price</u>
	Orlando, FL	2/10 to 2/14/2020	\$2395
	St. Louis, MO	September 2020	\$2395

Gas Turbine Fundamentals: 4 Days

This course is ideal for plant operations, maintenance, and engineering personnel interested in gaining a broad understanding of gas turbine-generator design, operation, troubleshooting and maintenance. It is beneficial for new engineers and/or those who are new to gas turbine-generator technology. The program is based on the heavy-duty gas turbine designs by GE®, but many references to different OEMs will be made.

Dates and locations

<u>Course number</u>	<u>location</u>	<u>dates</u>	<u>price</u>
	San Antonio, TX	5/11 to 5/14/2020	\$2495

Turbine & Generator Inspection and Repair Technology Seminar: 3 Days

This program is ideal for Maintenance Managers, Plant Managers, and anyone directly involved with making repair/replace decisions. Basic understanding of turbine and generator technology is required. Attendees will gain a clear understanding of typical equipment failure modes and the latest available repair options.

Dates and locations

<u>Course number</u>	<u>location</u>	<u>dates</u>	<u>price</u>
	ST. Louis, MO	7/21 to 7/23/2020	\$1500

For more information on these and other training offerings visit our website at www.mdaturbines.com, or contact Dave Hagenbuch on (847) 705-0826, email dhagenbuch@mdaturbines.com



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Mk VI Controls Course: 4-1/2 days

This course is ideal for instrumentation & controls technicians needing a thorough understanding of the Mark VI® turbine control system (hardware and (Legacy) Toolbox). MD&A has a complete working Triple Modular Redundant (TMR) Mark VI® turbine control panel with the typical input and output terminal boards. This course is designed to cover the Mark VI® hardware and (Legacy) Toolbox software as used for configuring, troubleshooting, and maintaining (including LVDT calibrations) a turbine controlled and protected by a Mark VI® TMR turbine control system.

Dates and locations

<u>Course number</u>	<u>location</u>	<u>dates</u>	<u>price</u>
	Ft. Collins, CO	TBD	\$1995
