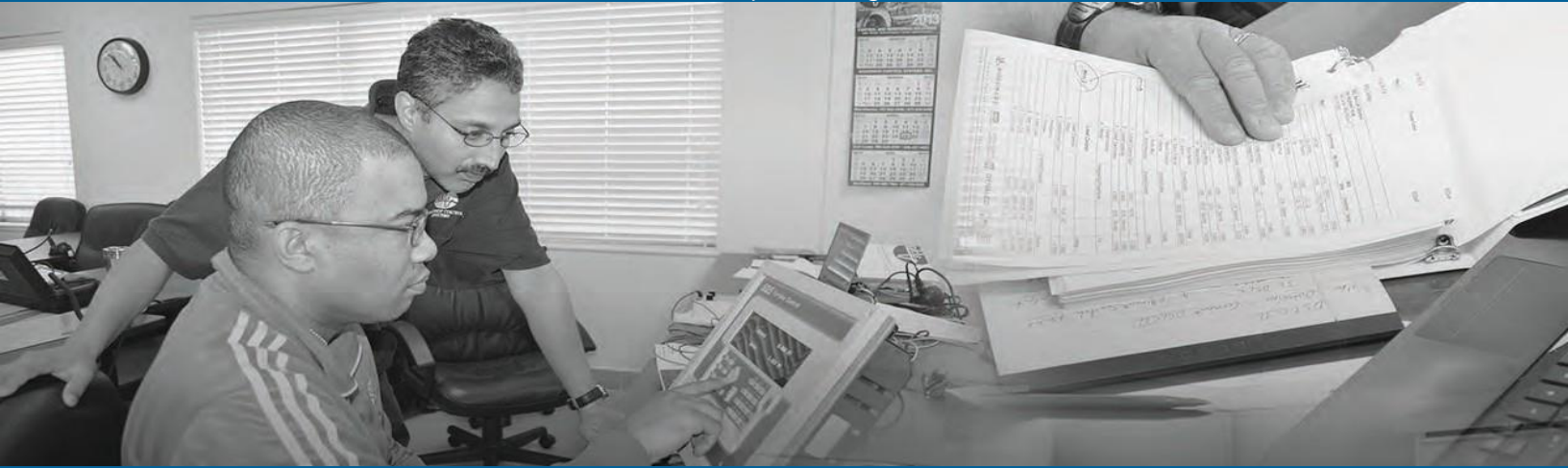


# 2022 Class description

## Hands-on Training

[www.mshs.com](http://www.mshs.com) | [training@mshs.com](mailto:training@mshs.com)



### WHO SHOULD ATTEND:

Trained personnel can protect your critical operations. If you work with Woodward Industrial mechanical governors or electronic controls systems as a plant or vessel supervisor, instrumentation and electrical (I&E) engineer, maintenance operations, or an applications engineer, these courses will sharpen troubleshooting skills to increase efficiencies and uptime.

#### 2301A / E Load Sharing and Speed Control

**Class #**  
**IPCS009**  
**3 Days**  
**\$1544**

Learn the operation, installation, and adjustments of 2301A (Analog) and the 2301D or E (Digital) Load Sharing Speed Control. Understand how the 2301A and 2301D or E control, actuators, and their associated accessories allow their engines to operate together, either on or off the infinite bus (utility). Hardware and software configuration/monitoring will be explained and connected to a loop test set.

#### easYgen 3200 (en Español) Power Management Control

**3 Days**

Esta capacitación le dará la oportunidad de aprender más sobre los controles configurables Woodward easYgen serie 3200. La clase está diseñada para explicar la operación, teoría, instalación, tipo de cableado y mantenimiento. La parte práctica incluirá tiempo para la configuración, ajustes y técnicas de solución de problemas con aplicaciones relacionadas al easYgen serie 3200.

**723 PLUS Digital Speed Control****Class #  
LE001  
3 days  
\$1544**

Woodward 723 PLUS control is a configurable control for prime movers. Both the hardware and software will be covered in class. During the course, the control will be programmed and monitored with Woodward Watch Window and a hand-held programmer. The control will be operated using a closed-loop test set to simulate an engine.

**Peak 150 Digital Steam Turbine Control****Class #  
TC010  
2 days  
\$1030**

Woodward Peak 150 digital steam turbine controls are used in mechanical drive applications. Hardware, software, and programming will be demonstrated; the control connected to a closed-loop test set. Learn how the Peak 150 control, actuators, and their associated accessories allow turbines to operate together, either on or off the infinite bus (utility) or operating a mechanical drive.

**DSL2C-2 and MSLC-2 Synchronizer & Load Control****Class #  
IPCS001  
2 days  
\$1030**

Learn more about the basics of power management. This course will focus on the Woodward DSL2C-2 & MSLC-2 controls including theory, installation, operation, and maintenance plus hands-on programming, adjustments, and troubleshooting techniques.

**UG-8 / UG-40 Mechanical Governor****Class #  
MG001  
2 days  
\$1030**

This class will give you the opportunity to learn about the UG governor. In this class, you will learn the theory, installation, operation, and maintenance of the governor. Calibration and troubleshooting by using the test stand.

**E3 Gas Engine Control System, Lean Burn, Rich Burn, Full Authority****Class #  
LE002  
2 days**

This class covers the theory, installation, maintenance, and troubleshooting of the Woodward E3 air-fuel ratio control in Lean Burn, Trim, or Full Authority Systems. The control is tested in a close-loop system.

**PG Mechanical Governor Basics (PGA, PG-PL, PGG)****Class #  
MG002  
3 days  
\$1544**

This class will give you the opportunity to learn about PG mechanical governor. In this class, you will learn the theory, installation, operation, and maintenance of the governor. Calibration and troubleshooting were done using the test stand.

**ProTech TPS, GII, and SX Overspeed Safety Systems****Class #  
TC011  
2 days  
\$1030**

Woodward ProTech GII, TPS, and SX are speed Safety Devices for steam turbines. This class is designed to explain the operation, theory, installation, programming, and maintenance. The hands-on portion will include time for programming, adjustments, and troubleshooting techniques. This class is designed to explain the operation, theory, installation, programming, and maintenance. The hands-on portion will include time for programming, adjustments, and troubleshooting techniques.

**EGCP-3 Power Management Genset Control****Class #  
IPCS005  
2 days  
\$1030**

Learn about the Woodward EGCP-3. This class will begin with an introduction to the basics of power management. The installation, programming, troubleshooting, and operation of the EGCP-3 will be covered, and class members will gain hands-on experience in programming the control.

**505/505E Digital Steam Turbine Controls**

**Class #  
TC008  
3 days  
\$1544**

**505XT Digital Steam Turbine Control**

**Class #  
TC009  
3 days  
\$1544**

Review Woodward 505/505E digital steam turbine control theory and turbine parameters, installation, wiring, operating procedures, programming, and troubleshooting. The hands-on portion includes programming, adjustments, and troubleshooting techniques on the 505 connected to the simulator with specifically designed examples. Operate the control within a closed-loop test set.

**easYgen 3200 Power Management Control**

**Class #  
IPCS008  
2 days  
\$1030**

**easYgen 3500XT Power Management Control**

**Class #  
IPCS007  
3 days  
\$1544**

The Woodward easYgen 3200 and 3500 control system. The courses cover theory, installation, programming, operation, and maintenance of the easYgen 3200/3500 control systems using actual controls. Hands-on training includes time for programming, adjustments, and troubleshooting techniques.

For more information and our training schedule visit: [mshs.com/training-classes](http://mshs.com/training-classes)

Cancellations must be in writing. No charge for cancellations received four weeks before the first day of class. Cancellations within the four weeks, 25% of the cost of the class; cancellation charge within three weeks, 50% of the cost of the class is charged; within two weeks, 75% of the cost of the class is charged; within one week, 100% of the cost of the class is charged.

No-shows will be charged 100% of the cost of the class. Names may be substituted at no additional charge.

Please notify the Training Coordinator if the name of the class attendee changes.

\*Charges will not be applied until week of training. A paid receipt will be sent at that time.



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