2017 Class Schedule
Hands-on Training

CEU UNITS & PDH EDUCATION HOURS
Qualify for Continuing Education Units (CEU) & Professional Development Hours (PDH). As an education partner of IEEE, GCS is authorized by the International Association for Continuing Education and Training (IACET) to offer CEU credits for the Woodward Training Program. An IEEE CEU certificate will be issued upon request after course completion. Additional $50 fee required.
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 / D / E Load Sharing and Speed Control
FL: Jan 24-26 / May 16-18 / July 11-13 / Sept 12-14 / Dec 5-7
WA: Feb 21-23 / June 6-8 / Oct 31 to Nov 2
Class #100
3 Days
$1470

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.

505/505E Digital Steam Turbine Controls
FL: Feb 14-16 / June 13-15 / Aug 8-10
WA: April 18-20
Class #107
3 Days
$1470

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.

723 PLUS Digital Speed Control
FL: Jan 31 to Feb 2 / April 4-6 / July 18-20 / Nov 7-9
WA: May 16-18 / Aug 15-17 / Dec 5-7
Class #103
3 Days
$1470

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.

DSLC-2 and MSLC-2 Synchronizer & Load Control
FL: May 2-3 / Aug 1-2 / Oct 3-4
Class #101A
2 Days
$980

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

E3 Gas Engine Control System, Lean Burn, Rich Burn, Full Authority
LA: Oct 24-25
WA: June 27-28
Class #117
2 Days
$1470

This class covers 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.

easYgen 3200 (en Español) Power Management Control
Class #115A
2 Days
$980

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.

EGCP-3 Power Management Genset Control
Class #100
3 Days
$980

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.

Peak 150 Digital Steam Turbine Control
FL: Aug 22-23
Class #106
2 Days
$980

Woodward Peak 150 digital steam turbine controls is 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.

UG-8 / UG-40 Mechanical Governor
FL: March 20-21
LA: June 19-20 / Dec 4-5 | WA: Sept 11-12
Class #108
2 Days
$980

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

PG Mechanical Governor Basics (PGA, PG-PL, PGG)
FL: March 22-24
LA: June 21-23 / Dec 6-8 | WA: Sept 13-15
Class #109
3 Days
$1470

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

ProTech TPS, GII and SX Overspeed Safety Systems
FL: May: 9-10 / July 25-26 / Oct 17-18
WA: April 25-26
Class #118
2 Days
$980

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.

www.govconsys.com/training
Customized classes are available on request for most Woodward control products, control platforms and applications. Dates and class curriculum are tailored to meet your specific application and system requirements. Select custom dates for our standard classes or training on mechanical governors and actuators to Woodward upper level electronic controls, including Micronet and GAP software. We also offer custom training for Basler DECS200/250 AVR and Excitation Systems, Bently Nevada 3500 Monitoring Systems, KRAL Fuel Metering Systems, and Schaller Oil Mist Detector Systems.

Custom training may be delivered at customer site or any GCS location - Florida, Louisiana, Virginia or Washington. Custom training is available in English, Spanish, and Portuguese. Contact our Training coordinator at (877) 659-6328 or email training@govconsys.com to arrange a custom class.

**2017 Training Schedule**

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<th>Class</th>
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**CUSTOM TRAINING**

SUGGESTED CLASSES AVAILABLE UPON REQUEST

Custom classes are available for most Woodward Governors, Actuators and Controls. Suggested classes:

- **723 and DSLC Control and MSLC Synchronizer & Load Control** 2 DAY
- **505D and 505XT Digital Steam Turbine Controls** 3 DAY
- **Control Assistant Software** 1 DAY
- **DSLC Control and MSLC Control** 1 DAY
- **EGCP-2 Power Management Genset Control** 1 DAY
- **GAP (Software) Version 2.18 or 3.0/Software Tools** 2 DAY
- **MicroNet, Micronet Plus, Micronet TMR** 2 DAY
- **Basler DECS200 / 250 Voltage and Excitation Controls** 1 DAY
- **Bently Nevada 3500 Vibration Monitoring Systems** 1 DAY
- **KRAL Fuel Metering Systems** 1 DAY
- **Schaller Oil Mist Detection System** 1 DAY
## 2017 GCS TRAINING CLASS REGISTRATION

Register on-line at www.govconsys.com/training.htm or complete registration form below and send via fax, mail or email to training@govconsys.com. Registration confirmation will be sent via email or fax.

### Company & Student Information

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### Class Details (Class Name / Dates / Student Names)

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### Notes
- 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.
- By signing the cardholder as shown on credit card acknowledges charges described hereon. Payment in full to be made when billed in accordance with standard policy of the card issuing company.
- Charges will not be applied until week of training. A paid receipt will be sent at that time.

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

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