



2017 Class Schedule

Hands-on Training

www.govconsys.com | training@govconsys.com



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.



GOVERNOR CONTROL SYSTEMS, INC.

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2022 Tamvest Ct., Mandeville, LA 70448
+1 985-626-8707 / 888-427-4853

3120 Arizona Ave., Norfolk, VA 23513
+1 757-852-5808 / 877-659-6328

3425 16th Ave. West, Seattle, WA 98119
+1 206-297-0300



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.

DSL2-2 and MSL2-2 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 DSL2-2 & MSL2-2 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 Power Management Control

FL: March 7-8 / Oct 24-25
WA: March 21-22 / July 11-12 LA: Jan 31 to Feb 1

Class #115A
2 DAYS
\$980

easYgen 3500 Power Management Control

FL: April 18-20 / Sept 19-21 / Nov 14-16
WA: Sept 12-14

Class #115B
3 DAYS
\$1470

The Woodward easYgen 3200 and 3500 control system. The courses covers 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.

easYgen 3200 (en Español) Power Management Control (Call or Send Request)

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.

EGCP-3 Power Management Genset Control Custom Class (Call or Send Request)

2 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
LA: March 21-22 / June 6-7 / Aug 1-2 / Oct 10-11

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.

Classes designated **FL** are scheduled in **GCS Fort Lauderdale, Florida**; **LA** classes are scheduled in **GCS Mandeville, Louisiana** and **WA** classes are scheduled in **GCS Seattle, Washington**. **Rates are per person.**

2017 Training Schedule		Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
2301A/D/E Load Sharing and Speed Controls	CLASS #100 3 DAYS \$1470	24-26 FL	21-23 WA			16-18 FL	6-8 WA	11-13 FL		SEP 12-14 FL		Oct 31 to Nov 2 WA	5-7 FL
505/505E Digital Steam Turbine Controls	CLASS #107 3 DAYS \$1470		14-16 FL		18-20 WA		13-15 FL		8-10 FL				
723 PLUS Digital Speed Control	CLASS #103 3 DAYS \$1470	Jan 31 to Feb 2 FL			4-6 FL	16-18 WA		18-20 FL	15-17 WA			7-9 FL	5-7 WA
DSL2-2 and MSLC-2 Synchronizer & Load Controls	CLASS #101A 2 DAYS \$980					2-3 FL			1-2 FL		3-4 FL		
E3 Gas Engine Control Systems, Lean Burn, Rich Burn, Full Authority	CLASS #117 2 DAYS \$1470						27-28 WA				24-25 LA		
easYgen 3200 Power Management Control	CLASS #115A 2 DAYS \$980	Jan 31 to Feb 1 LA		7-8 FL 21-22 WA				11-12 WA			24-25 FL		
easYgen 3500 Power Management Control	CLASS #115B 3 DAYS \$1470				18-20 FL					12-14 WA 20-22 FL		14-16 FL	
Peak150 Digital Steam Turbine Control	CLASS #106 2 DAYS \$980			21-22 LA			6-7 LA		1-2 LA 22-23 FL		10-11 LA		
UG-8 / UG-40 Mechanical Governors	CLASS #108 2 DAYS \$980			20-21 FL			19-20 LA			11-12 WA			4-5 LA
PG Mechanical Governor Basics PGA, PG-PL, PGG	CLASS #109 3 DAYS \$1470			22-24 FL			21-23 LA			13-15 WA			6-8 LA
ProTech TPS, GII and SX Overspeed Safety Systems	CLASS #118 2 DAYS \$980				25-26 WA	9-10 FL		25-26 FL			17-18 FL		

CUSTOM TRAINING

SUGGESTED CLASSES AVAILABLE UPON REQUEST

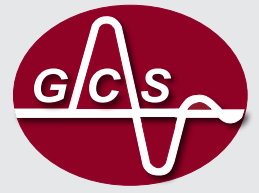
Customized classes are available on request for most Woodward control products, control platforms and applications. Dates and class curriculum are tailored to meet your specific application and system requirements. Select custom dates for our standard classes or training on mechanical governors and actuators 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 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
DSL2 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

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 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

Company Name

Company Address

City State Zip Code

First Name Last Name

Company Phone Cell Fax

Email Address

Purchase Order Number

Credit Card Payment Information*

Name on Credit Card

Credit Card Number

CHOOSE A PAYMENT METHOD

VISA
 MasterCard
 AMERICAN EXPRESS
 DISC VER

Expiration Date CVV Number Billing Zip Code

Authorized Signature of Cardholder

X

By signing, the cardholder as shown on credit card acknowledges charges described herein. Payment in full to be made when billed in accordance with standard policy of the card issuing company.

IMEE Membership #

Class Details (Class Name / Dates / Student Names)

Class Description	Class Date	Student Name
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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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