



## Practical Process Control Training

PID Troubleshooting and Tuning

This Atlanta training offered by BIN in conjunction with *Control Station*. All training courses offered as *On-Site Training* too.

**Atlanta, GA. Schedule: Oct. 4-5, 2006 (register below)**

Or see our St. Louis, MO at [http://www.BIN95.com/PID\\_Process\\_Control\\_Saint-Louis.htm](http://www.BIN95.com/PID_Process_Control_Saint-Louis.htm).

### Day 1 Atlanta Training ...

#### • Training

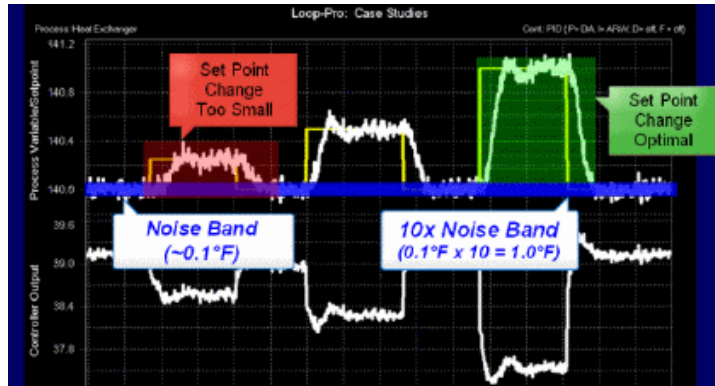
- Fundamentals of Process Dynamics and Control
- Proportional Control
- Integral Action and PI Control
- A Formal Approach to Controller Design Using Design Tools
- Controller Performance Criteria
- Derivative Mode and PID Control
- PID Control with Derivative Filter

#### • Demonstration

- Modeling Process Dynamics Using Control Station
- Implementation of P-Only Controllers
- Adaptive PI Control of Nonlinear Processes
- PID Control of Tank Level
- PID with Filter Control of Heat Exchanger Temperature

#### • Hands-On

- Exploring Dynamics of the Gravity Drained Tanks
- P-Only Control of Tank Level
- The Hazard of Tuning PI Controllers by Trial and Error
- PI Control of Heat Exchanger Temperature
- PID Control of Heat Exchanger Temperature
- PID with Filter and Control of the Multi-Tanks Process



After great success in St. Louis, this PID Troubleshooting course "*Practical Process Control*" is now being offered as one of our Atlanta industrial manufacturing seminars. Your process control manager should send at least two engineers to the Atlanta training, as this PID training is second to none in the process control industry.

This Atlanta industrial seminar approach to training is simple: focus on the application of formulas rather than on their derivation. With examples from real world industrial manufacturing processes and the PID control tuning simulation software, you will gain a clear understanding of the 'how and why' changing PID parameters effect the process. It takes the guess work out of PID control tuning.

This PID training course has helped process technicians, maintenance, and engineers to understand and apply innovative control techniques. With a focus on hands-on training, this process control training allows you to put new concepts to the test and to develop new plant optimization strategies. With an industry orientation, we accelerate the learning process and help your company realize a rapid return on its training investment.



This PID training can also help you stand out and advance your manufacturing engineering career. Through the University of Connecticut, participants earn valuable credits toward a continuing education certificate. By successfully completing the course, they gain valuable knowledge and prepare for greater opportunities.

How do top companies like Holcim (US) (cement), Lafarge North America (cement), Honeywell (chemicals), Westinghouse Savannah River (power), ChevronTexaco (petroleum), Genzyme (biotech/pharmaceutical), and Owens Corning (chemicals) maintain their competitive advantage? Attend PID Control workshop and learn proven techniques that will improve your bottom-line performance.

*"Control Station equipped my team with the training they needed to succeed. They kept [it] simple and straightforward, focusing on techniques that could be applied immediately on the plant floor"* E&I Supervisor- Magnesium Elektron

*"Control Station's 'case study' approach to teaching the subject was unique. Learning by doing helped me understand the topics as they were presented."* Process Engineer - International Flavor & Fragrances

*"I learned a great deal and I will recommend this workshop for all of our process staff."* Maintenance Manager - Ash Grove Cement

### Day 2 Atlanta Training ...

#### • Training

- Using Control Station with Real Processes
- Cascade Control
- Feed Forward Control
- Dynamics of Non-Self Regulating (Integrating) Processes

#### • Demonstration

- Simulation and Control of Heat Exchanger using Custom Process
- Single Loop Control of the Jacketed Reactor
- Feed Forward Control of an Ideal Process
- Controlling a Non-Self

Regulating (Integrating) Custom Process

• **Hands-On**

- Modeling and Simulation of Single Loop Processes
- Cascade Control of the Jacketed Reactor
- Feed Forward Control of the Jacketed Reactor
- Modeling and Control of the Pumped Tank Process

**Instructor Bio:**

**Dr. Robert Rice – Director of Solutions Engineering**

Dr. Rice has published extensively on topics associated with automatic process control, including non-self-regulating processes and model predictive control. Prior to joining Control Station, Dr. Rice held engineering and technical positions with PPG Industries and The Walt Disney Company. Dr. Rice received his BS in Chemical Engineering from the Virginia Polytechnic and State University and both his MS and PhD in Chemical Engineering from the University of Connecticut.

The Atlanta training also comes with **Free PID software demo, handouts and a copy of Practical Process Control** by Douglas J. Cooper.

**This course offer information your people will actually use out on the shop floor.**

**Seminar Location ...**



**Just 1/4 mile from the Stone Mountain Conference Center**

**Atlanta, Georgia**

**<Click picture for resort details .**

As a less expensive alternate, reservation may be made at the [Country Inn & Suites](#). Country Inn is where training seminar will be held and is only 1/4 mi from Stone Mountain Conference Center. Seminars end on Friday, so your can reward your self by visiting Stone Mountain afterwards. Nice golf course and great for families too.

**Note:** *Loaner laptops will be provided. We will be using laptops to work with the PID software specifically designed to help users learn process control training.*

*This process control training course, as with all of our training courses, is not just text book instructions but practical knowledge and case examples based on years of experience.*

*All trademarks and trade names are property of their respective owners.*

Register below by fax or mail, or register online with our secure form at ...

[https://www.bin95.com/Atlanta\\_Industrial\\_PID\\_machine\\_reg.htm](https://www.bin95.com/Atlanta_Industrial_PID_machine_reg.htm)



# Atlanta, GA.

## Atlanta Industrial Process Control Training

Register for PID machine control training seminar today.

**Atlanta, GA. Schedule: Oct. 4-5, 2006**

Or see our St. Louis, MO [PID Training](#). All training workshops offered as [On-Site Training](#) too, contact us for details.

Gain an understanding of the **PID machine** and get ahead in the **process control industry**. Join us for one of these great **Atlanta seminars** for **second to none, industrial process control training**.

[Click for PID Training](#) - two day workshop [DETAIL PAGE](#)

### [Seminar Fee ...](#)

**\$1450 PID** course per attendee. **Group discounts may apply.**

**10% discount** to AFE members! (*not to be used with other discounts*)

### [Registration Methods ...](#)

- 1) **Online** (This page)
- 2) **Fax** (860) 875-1749
- 3) **Phone** (877) 566-7776
- 4) **Mail** this form to ...  
**Control Station, Inc.**  
 One Technology Drive  
 Tolland, CT. 06084
- 5) **Email** all form information to  
**[Training@bin95.com](mailto:Training@bin95.com)**

Right click and select "Save Target As" to [download printable copy](#) of this registration form.

### [Seminar Location ...](#)

**Country Inn & Suites, Stone Mountain, Atlanta, Georgia**  
1852 Rockbridge Road, Stone Mountain GA 30087

[Click for hotel website/](#) Phone (770) 465-6515

### [Accommodations ...](#)

Seminar fee does not cover meals, travel or hotel. *Lunches*

### Authorizing Manager:

Name:

Title:  Email:

Company Name:

Address:

City:  Zip:  State/Prov:

Phone:  Fax:

2 Day Process Control (PID) Workshop Date:  October 04-05, **2006** - (\$1450)

### Seminar Attendees:

Name:  Title:

Name:  Title:  group discount \*

Name:  Title:

Name:  Title:

**Payment Method:** Amount to be charged **per attendee - for two or more attendees** PID course will be **discounted** to \$1250 per attendee!

Please enter your credit card information below before submitting this secure form. You will also need to submit this form with contact information above filled out when paying with Check.

Visa  MasterCard  AMX  Check Enclosed (pay to Control Station Inc.)

Card Number:

Expiration Date:  Card Code?:

Name on Card:

Signature:

*Group discount for PID course, is \$200 off list price per attendee. Two or more attendees qualifies for the group discount.*

*We are a Strategic Training Partner for the Association for Facilities Engineering (AFE) and provide AFE members a 10% discount.(US\$2025, per AFE attendee)*

**If you have not done so yet, you need to complete the contact info on the form above**

and snacks are on us.

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[Schedule ...](#)

8:00am - Class Starts  
12:00 - 1:00pm Lunch  
4:30 - Class Ends

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**FOR MORE Atlanta,  
GA. DETAILS, CLICK  
[PID Training](#)**

**and click the "submit" button.**

**Additional Information:** *If AFE member, indicate so in name field. Cancellations may apply fees to other PID training classes.*

Registrants may receive additional information and updates via their email address.

*All trademarks and trade names are property of their respective owners. [Cancellation Policy](#)*