



TRUE NORTH CONSULTING, LLC

Advanced Thermal Performance Training

Advanced Thermal Performance Training--Nuclear June 16- 19, 2020

True North Consulting will be conducting an Advanced Thermal Performance Training course for Nuclear Plant Thermal Performance Engineers beginning June 16 and concluding June 19, 2020. Course offering and associated details are enclosed with additional information available at the provided link. The course is designed for those who have had a basic thermal performance course or one year or more experience in thermal performance. This training was developed by utility engineers who have solved many plant thermal performance problems and are uniquely qualified to help you understand how to deal with efficiency issues at your plant. Please forward this invitation to persons at your site responsible for Thermal Performance. In addition this training has been presented to system engineers who have benefited from the overall troubleshooting skills developed.

Course Summary

- **Setting Baseline Values:** Thermal performance monitoring program starts with establishing and verifying baseline values for important performance parameters. Baseline values need revision after plant uprates or other modifications. This course will describe and provide hands on examples of how to determine baseline values.
- **Development of Correction Curves:** In addition to baseline values, correction curves are required to determine the effect of the plant parameters deviating from the baseline values. This course will describe how to develop correction curves using thermodynamic modeling as well as empirical data.
- **How to Troubleshoot Thermal Performance Problems:** This course will provide examples of actual plant problems and the students will use the troubleshooting process to identify the problem.

Links to more information can be found on our website: www.tnorthconsulting.com

Schedule

June 15-19, 2020

Monday: Arrive in Montrose, Colorado

Tuesday: Troubleshooting introduction, Baseline Values and Correction Curves ----8:00 a.m. – 4:30 p.m.

Wednesday: Troubleshooting Examples – Session #1 ----8:00 am - 4:30 pm

Thursday: Troubleshooting Examples – Session #2 ----8:00 am – 4:30 pm

Friday: Troubleshooting Examples – Session #3 ---- 8:00 am – 11:30 am

Pricing

\$2,695/person (Lunches will be catered and beverage service provided during scheduled breaks.)

Items to Bring

Laptop with Excel installed, Calculator, Heat Balance Diagram and/or Thermal Kit of your Plant

Training Facility

[The Bridges](#)

2500 Bridges Drive

Montrose, CO 81401 Phone: 970 – 252- 1119

Accommodation Suggestions

Hampton Inn
1980 North Townsend
Montrose CO 81401
970-252-3300

Holiday Inn Express
1391 South Townsend Ave
Montrose, CO 81401
970-240-1800

Course Qualifies for Continuing Education Units (CEU)

Each attendee will receive a Certificate of Completion for 2.8 Continuing Education Units (CEU) credits to qualify for 28 Professional Development Hours (PDH) needed to fulfill Professional Engineers' continuing education requirements. The credits will be awarded without authorization. It is the attendee's responsibility to keep and present the certificate to any organization that requires the certificate.

Instructors

Frank Todd
fdt@tnorthconsulting.com
970-964-2753

Frank serves as Manager of Thermal Performance at True North Consulting. Frank is highly skilled in the use of analytical tools designed to evaluate thermal performance and improve plant efficiency and reliability. These tools include a variety of approaches using computer based plant modeling with strong emphasis on problem analysis and resolution. Additionally, Frank has developed a wide spectrum of test specifications, procedures, and testing configurations in support of thermal performance improvements.

Tim Koski
tjk@tnorthconsulting.com
970-964-2750

Tim serves as an engineering consultant for True North Consulting with over 4 years of experience in the power industry with a special focus on engineering software, plant analysis and plant testing. Tim is the primary engineer responsible for the troubleshooting software.

Please contact us if you have any questions about our courses!

Questions

Contact Karla Todd
609-247-9467
kjt@tnorthconsulting.com

Registration

Please register by 5 p.m. Friday, June 5, 2020

There are three easy ways to register!

E-mail: Complete the following form and send as an attachment to: kjt@tnorthconsulting.com

Go to our Training Registration on our website: www.tnorthconsulting.com

Mail: Complete the following form (along with check or CC information) and mail to: Karla Todd, True North Consulting, 150 Merchant Drive, Montrose, Colorado 81401

General Information

Name:

Title:

Company:

Credit Card
Billing Address

Telephone:

Fax:

Email:

Payment Information

Check one form of
payment:

CREDIT CARD CHECK # _____
 Visa MasterCard American Express Other

Card #

Exp. Date:

Cardholder Name:

Signature:

Cardholder's Email Address/Phone Number:

- *Remittance of payment is due one week prior to the first day of training.*
- *Receipt for payment will be emailed to you as your confirmation.*
- *If your company or another party will be compensating True North Consulting for your registration fee via check or credit card, please include a contact name, number and email address of the person responsible.*
- **All information shall remain confidential.**

If you have any questions about registering, please call 609-247-9467 or email kjt@tnorthconsulting.com.
 Check our website for updated training information and schedules: www.tnorthconsulting.com.