

Basic Thermal Performance Training

September 14-17, 2021

New

Course will be conducted in person and virtual if required. Please specify if virtual training is required on Registration Form

OVERVIEW

The Basic Thermal Performance training includes many hands-on examples to drive home the theory and practical application. This session is geared toward engineers responsible for plant thermal performance.

COURSE CONTENT

- **Thermal Performance Basics:** Designed to review thermodynamic fundamentals and describe the essential elements of a thermal performance program
- **Power Plant Cycle & Component Evaluation:** Designed to teach how to identify and recover lost megawatts throughout the thermal cycle with an emphasis on an integrated approach to understanding the thermal cycle.
- **Thermal Plant Resources and Tools:** Designed to provide the engineer a good understanding of resources used to evaluate thermal performance including trending, analysis, turbine testing, cooling tower testing, quantification of losses and software tools.

SCHEDULE AT A GLANCE - September 14-17, 2021

Tuesday	7:00am 3:00pm	Thermodynamic Fundamentals & Component Analysis
Wednesday	7:00am 3:00pm	Cycle and Component Analysis
Thursday	7:00am 3:00pm	Thermal Performance Tools and Resources
Friday	7:00am 11:00am	Testing & Program Development

All times are MDT

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.

FEE: \$2,695

*Lunches and beverage service will be provided (for those attending in person)

** Calculator, Heat Balance Diagram and/or Thermal Kit of your Plant

TRAINING LOCATION

The Bridges
2500 Bridges Drive
Montrose, CO 81401
(970) 252-1119

ACCOMMODATION SUGGESTIONS

Holiday Inn Express
1391 S. Townsend Ave.
Montrose, CO 81401
(970) 240-1800

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

ABOUT THE INSTRUCTORS

Frank Todd | fdt@tnorthconsulting.com | 970.964.2753

Frank serves as Chief Technical Consultant at GSE TrueNorth. 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.

Jerry Munyan | jmunyan@tnorthconsulting.com | 970.964.2745

Jerry is Manager of Thermal Performance at GSE TrueNorth. Jerry has forty years of experience in the nuclear industry including; Nuclear Testing, System Engineering, Component Engineering, and Thermal Modeling.

QUESTIONS - Contact Carrie Briggs at carrie.briggs@gses.com.

Instructions for Virtual Thermal Performance Training:

1. Please minimize multitasking and be engaged as if all were together in a common training facility. We will be engaging everyone as we teach the class (and we may ask a question or two) so stay on your toes.
2. Required to have a video connection so we can see you
3. Attire is your choice, but remember you are on camera.
4. Background noises such as pets and family are understandable. Minimize if you can but no worries when the dogs bark at the doorbell. We might draw the line at Elephants, snakes or really big spiders.
5. Zoom will be the platform used to facilitate the virtual training week. Zoom has web-based versions as well as free desktop apps. If you haven't used Zoom on the computer you will use for the training, it would be good to either load Zoom or to explore/test the web version prior to the training.
6. If you have a question, you can ask at any time. We greatly encourage questions.
7. We will send hard copies of the exercises.
8. We will be doing the exercises together and you will be expected to actually do them with a pencil and a calculator.
9. We will be taking hourly breaks (feel free remind us if we get too carried away, we love thermo)
10. The class will start at 7:00 am. MST so y'all in the east get to sleep in.
11. The class will end at 3:30 pm. MST so y'all in the east get to work a little late.
12. We will take a 45-minute lunch break at 11:00 am. MST.