

PROCESS INTEGRATION TRAINING WORKSHOP

November 8-10, 2016 · Toronto, ON



“This was an excellent course...the techniques can and will be used immediately...the best value I’ve ever had for a course”

“Well worth the time and effort”

SYNOPSIS: An in-depth, 3-day process integration course, with both theory and case studies using NRCan’s INTEGRATION software.

OBJECTIVES: Reduce energy use by up to 40%, cut greenhouse gas emissions and costs, and improve process throughput using pinch analysis techniques; evaluate heat recovery projects and improve equipment operating conditions through a global approach; apply heat recovery in steam, refrigeration, and compressed gas utilities.

TARGET AUDIENCE: Engineers specializing in industrial energy efficiency; process design engineers and plant project managers having to carry out analyses aimed at improving complex industrial energy systems. Limited to 15 participants.

DAY 1: Intro to industrial process heat integration

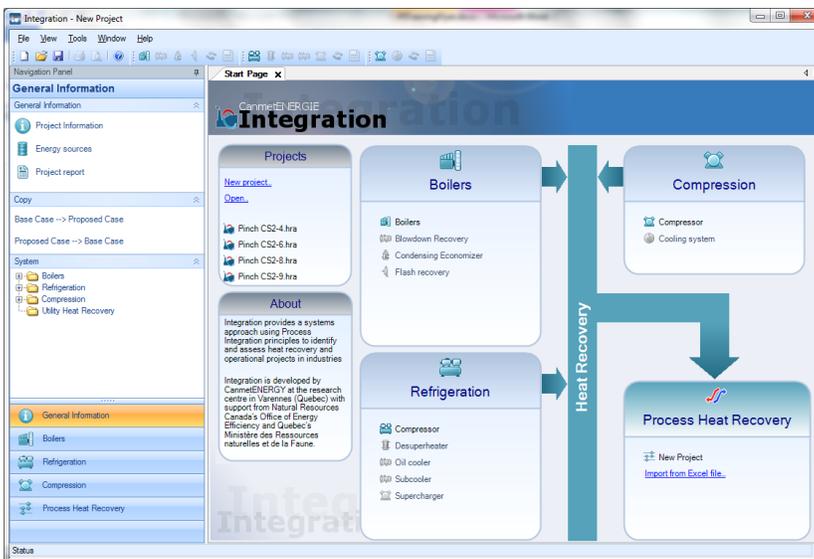
- Principles of global energy & pinch analysis
- Graphical representation of process streams and heat exchanges
- Determining minimum energy consumption and heat recovery potential of a process
- Identifying sources of energy inefficiency

DAY 2: Process heat integration (continued)

- Pinch analysis of heat exchanger networks
- Heat integration for process and utility systems

DAY 3: Steam system, refrigeration system and compression system. For each utility system:

- Overview of main equipment/principles
- Evaluation of energy performance and sources of waste heat; influence of operating parameters
- The utility system in a global analysis context: evaluation of heat recovery potential



Trainers (licensed by NRCan):

Alberto Alva, MSc, PhD, MBA (Process Ecology)
Michael Ross, BSc (RER Energy)

Date: November 8-10, 2016

Location: Ramada Plaza Hotel
300 Jarvis Street, Toronto, ON

Included: course, software, lunch, tea/coffee

Cost: \$1350 before October 7; \$1490 after
(Add 2.5% if paying by credit card)

Contact: training@rerinfo.ca or (514) 564-9089
or www.RERinfo.ca/PITraining.html

SOFTWARE: CanmetENERGY’s INTEGRATION software combines sophisticated engineering models for pinch analysis and steam, refrigeration, and compression heat recovery with a friendly user interface. Practical, powerful, and **free for course participants**. Visit: tinyurl.com/NRCan-Integration

