Course Overview
Course number:  UOP-0003-S
Course length:  3 days

Refinery Energy Management
Refinery operations receive a significant benefit from lowering operating costs with programs that address energy efficiency and energy optimization. This course combines lecture, directed discussion, case studies and examples to present the latest information on energy management. There is discussion on how to effectively manage energy consumption within the refinery as well as how to enhance the profitability of existing projects through site-wide energy integration.

Course Benefits
You will acquire the necessary skills and knowledge to:

- Describe the economics of energy efficiency and its impact on refinery profitability
- Understand the fundamentals of energy systems including steam, fuel, and power-generating equipment
- List the methodologies used in assessing and optimizing energy efficiency
- Explain specific opportunities to improve energy efficiency in both utilities and process areas
- Illustrate techniques to analyze and monitor the energy efficiency of a refinery
- Discuss ways to establish or improve an on-going energy management program

Course Delivery Options
- In-Center Instructor-Led Training
- On-Site Instructor-Led Training

Who Should Take This Course?
This course is designed for operations personnel, energy specialists, managers and process engineers who are part of a team responsible for energy efficiency and energy optimization. Participants should have at least 2 years of refining experience

Prerequisite/Skill Requirements
Prerequisite Course (s)
- None

Required Skills and/or Experience
- None

Desirable Skills and/or Experience
- None

Course Topics
You will learn...

- Impact of energy costs on profitability
- Benchmarking energy efficiency
- Determining refinery utility costs
- CO2 impact on energy costs
- Utilities, offsites and energy systems
- Process unit energy efficiency - analysis techniques including: process unit energy monitoring and benchmarking
- Key energy indicators
- Energy loss analysis
- Process heat recovery (pinch analysis)
- Turndown analysis
- Process unit energy efficiency including both process and equipment reviews
- Setting up a program
- Refinery energy audits

Course Topics continued
You will learn...

- Optimizing energy
- Considering commercial issues
- Energy monitoring tools

Additional Training
To increase your knowledge and skills, there are additional courses available from Automation College.

For more information and registration, visit www.honeywellprocess.com/en-US/training.