

National Training Program

NACT 288 – Petroleum Refining

Tentative Agenda - Day 1

- 8:30 Welcome, introductions, housekeeping, expectations
- 9:00 Introduction to petroleum refining
Refining terms, history, petroleum chemistry, refining overview
- 10:00 Process equipment
Heaters, heat exchangers, flare, cooling towers, vacuum systems, tanks
- 12:00 Lunch
- 1:00 Processes and control-**separation** processes
Desalting, flashing, stripping, distillation (atmospheric and vacuum crude distillation)
- 3:30 Processes and control-**treatment** processes
Hydro-treating, acid and caustic wastes, acid gas (H₂S) scrubbing, hydrogen manufacturing, H₂S recovery, tail gas testing
- 5:00 Adjourn

Tentative Agenda - Day 2

- 8:30 Process and control-**conversion** processes
Catalytic reforming, alkylation, isomerization, fluid catalytic cracking, hydro-cracking, coking
- 10:00 Process and control – **blending**
- 10:45 Continuous emissions monitoring, waste water treating
- 11:15 Fugitive VOC emission/controls, safety
- 12:00 Lunch
- 1:00 Site visit
- 3:45 Review , exam and course evaluation
- 4:30 Adjourn

Note: Breaks will be given throughout the day as appropriate