California Air Resources Board
National Training Program

CARB 288 – Petroleum Refining

Tentative Agenda - Day 1

8:00  Welcome, introductions, housekeeping, expectations
8:30  Introduction to petroleum refining
     Refining terms, history, petroleum chemistry, refining overview
9:10  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)
3:00  Processes and control - conversion processes
     Hydro-treating, acid and caustic wastes, acid gas (H₂S) scrubbing, hydrogen manufacturing, H₂S recovery, tail gas testing
4:30  Adjourn

Tentative Agenda - Day 2

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

Note: Breaks will be given throughout the day as appropriate