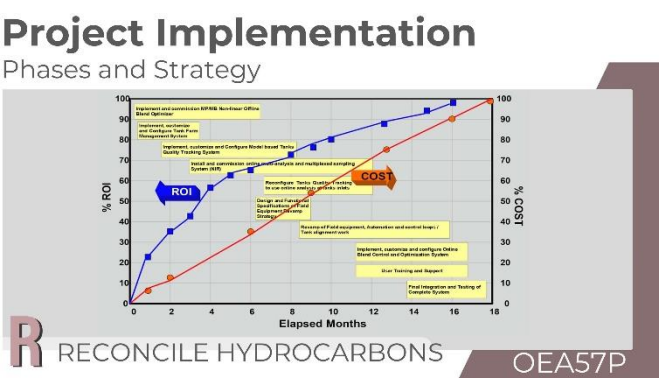

Topic ID	**OEA57T**
Title	**Project Implementation Phases and Strategy**
Category	**R-Reconcile Hydrocarbon**
eLearning Level	**Basic**

Introduction

Blending operations are important yet delicate tasks. They involve mixing components, tank allocation, blending of stock products, storage, and product delivery. A well-structured schedule will therefore maximize profit by reducing the cost of transition and improving order delivery. In addition, offline blend optimizers can run various LP problems concerning refinery production, configurations of blending, and crude blending.

This topic will discuss the typical blending automation project implementation schedule, return on investment (ROI) versus implementation strategy, Q1-Q2 schedule, Q3 - Q4 schedule, overall schedule

It shows a phased implementation of automation island for blending operations, offline optimization as a fast tool to implement at low cost to achieve maximum profit, etc.

Schedule for 1st and 2nd Quarter

In the context of implementation schedules for the First Quarter and Second Quarter, the following milestones must be accomplished:

Implementation, customization, integration, training, and commissioning of an MP/MB nonlinear offline blending optimizer.

Implementation, interface customization, integration, training, and commissioning of a model-based stock tank quality tracking system using current lab analysis of inlet samples.

Implementation, interface customization, integration, training, and commissioning of an online multi-analysis system with a multiplexed sampling system to analyze stock and product tank qualities.

Interfacing, integration, training, and final commissioning of a model-based stock tank quality tracking system using online analysis of inlet stream samples.

Schedule for 3rd and 4th Quarter

For the third and fourth quarters, the following milestones must be accomplished:

Revamping of all field equipment, automation, and control loops/stock tank alignment

Implementation through the commissioning of an online blend control and optimization system with an offline blend control system

Finally, testing for site acceptance and the completion of the project.

Overall Schedule

The overall schedule accounts for all activities from start to finish of the project. It shows the time frame of each aspect of the project and gives a proper account of time.

Summary

Refineries need to focus on the benefits of project scheduling. Its effect on ROI is noteworthy. Scheduling decisions have a significant effect on the business aspect of a refinery. The implementation cost of offline optimization is low, and the benefit is high.

Options for eLearning This Topic

Mode of eLearning	Available?
Free Course	No
Refresher Course	Yes
Pick N Choose (Custom Curriculum)	Yes
Advanced Level Course	Yes
Structured MCOR Curriculum	Yes