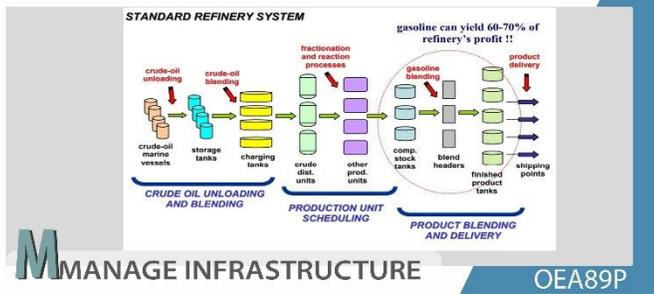




# Why Blending Projects Fail



**Topic ID**  
**Title**  
**Category**  
**eLearning**  
**Level**

**OEA89T**  
**Why Blending Projects Fail**  
**R-Reconcile Hydrocarbon**  
**Basic**

## Introduction

For each refinery, blending process is unique and customized. There are many factors responsible for complexity of blending process. Refinery's profitability depends on this process. Hence, it is a significant process. Different blend models and rules are non-linear. Blending process is influenced by composition and quality of components. A well experienced and active operator is required for successful completion of process.

**This topic will discuss Factors behind complexity of the blending process, blending as a non-linear process, steps to match the blending with reality, sources of errors, management commitment and vision, ROI vs Implementation strategy, blending project success recipe etc.**

## Failure of blending projects

In context of blending process, there are different sources of errors. These errors have to be corrected. There may be one by one correction for each error. It is difficult to work on different errors simultaneously. Re-blending has to be done in case of spec violation and quality give away. Re-blending has adverse impact on ROI (return on investment). Hence, a refiner aims for an efficient blending process. Many times, a refiner is not able to complete the blending process. There may not be any budget for upgradation/re-blending. Operator should be trained to handle such complex scenario.

Operator supervising the blend process should not be shifted to other units. It will hamper the process flow. Many times operators are familiar with old blending process. They do not understand importance of training. Sometimes, equipment and infrastructure are not upgraded. They are outdated. They are not maintained also.

There are many reasons for failure of blending process. For example, budget issues, delay in

process execution, poor understanding of process, inefficient staff, poor management, incompatible vendor, poor visualization of operator etc. Focus on correction of faults may lead to successful completion of blending process. If blending process is implemented as offside operation then, chances of success are high. Many refineries do not give much importance to upgradation of fuel blending system. They go for manual blending. Onsite operations are preferred. Many times, efforts for upgradation fail. It is not completed.

In case of old blending infrastructure, maintenance is poor. Desired components may not be there. For implementation of blending project, suggestions from external expert may be useful. Vendor selection has to be appropriate.

## Summary

Optimizer consists of generic blend models. It may cause significant spec violation or giveaway. This will need reblending. Clear understanding of operator is a pre-requisite for successful completion of blending process. There may be focus on manual blending. For a successful blending process, operator should evaluate and verify available blend model, develop plan for improvement, consider latest techniques, use online analyzers for quality monitoring etc.

## 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