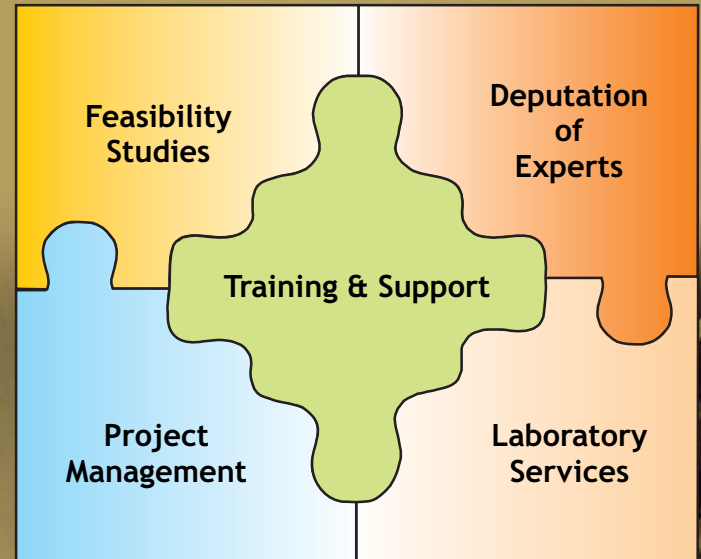


REFINERY CAPABILITIES

Competitive Edge of SAGA

- Rich experience in the O&M of Refineries.
- Adoption of latest tools & techniques for preventive, predictive, proactive maintenance.
- Dedicated team of specialists, for deputing at short notice for supervision of maintenance and inspection jobs.

Our Services



FEASIBILITY STUDIES

Before a decision to implement a project is taken, there is need to establish its viability and to economically justify any proposal. In this regard, feasibility studies need to be carried out. SAGA undertakes studies involving in-depth collection and analysis of the data such as:



- Market demand and the supply demand balances for the future scenarios
- Selection of Site
- Project /Process Selection (including configuration of the process units)
- Technology Source
- Estimation of Capital and Operating Costs
- Financial Analysis
- Environmental Impact
- Project Execution Plans
- Human Resources Requirements

SAGA also has the capabilities to carry out due diligence studies the prospective clients.

Deputation of Experts



- ✦ SAGA has a pool of resources (Operations/ Maintenance/ Projects) having experience in Refineries.
- ✦ Experts from SAGA are placed at key positions in the target refinery to ensure that the refinery is operated at optimum cost.
- ✦ SAGA experts works with the existing refinery staff in place.

TRAINING & SUPPORT

- ✦ World class training centres
- ✦ Hands-on-training
- ✦ Multi-disciplinary faculty of practising Managers
- ✦ Emphasis of training is on "Real Life Case Studies"



PROJECT MANAGEMENT



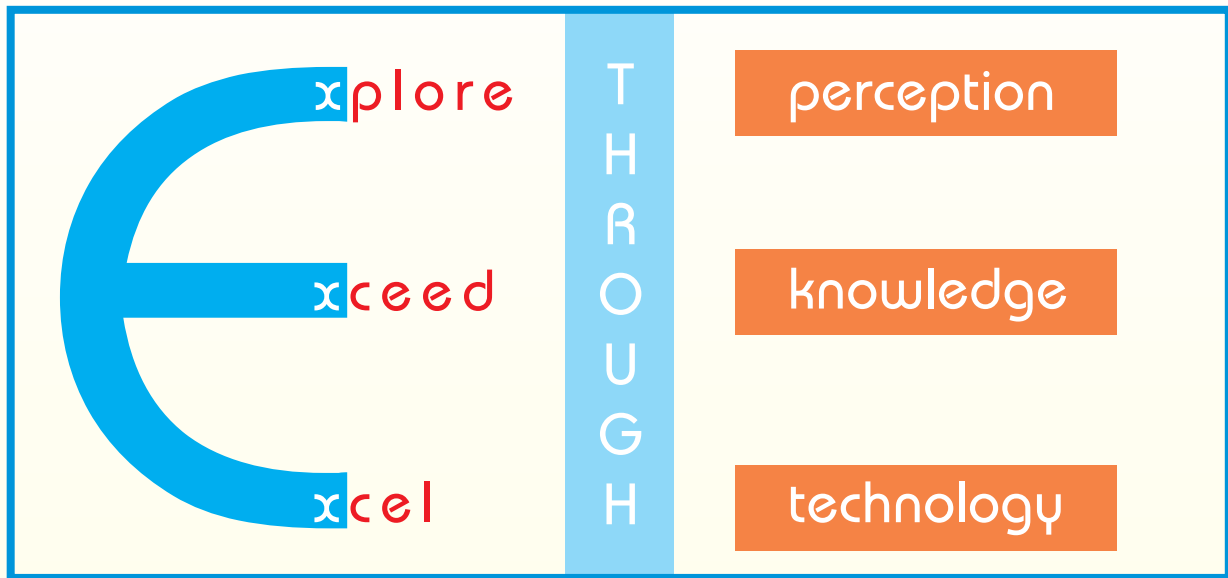
- ✦ Turnaround Maintenance of Refineries
- ✦ Modernisation & revamps executed during planned turnaround without production loss of refinery
- ✦ Low cost modifications and unit revamps
- ✦ Process Optimization

LABORATORY SERVICES

Development of Crude Assay

- ✦ **Laboratory Test/Analysis**
 - ❖ Detailed crude oil assay analysis /characterization
 - ❖ Detailed hydrocarbon analysis
 - ❖ Full product analysis
- ✦ **Reporting / Documentation**
 - ❖ Graphically display laboratory crude assay data.
 - ❖ Downloading assay format for LP models/ simulators





ABOUT THE SAGA GLOBAL CONSULTANTS

SAGA Global Consultants offer Training, Consultancy and Services in the Hydrocarbon Sector.

Projects to Mention:

- ✦ Capacity Building for Refinery staff in Middle East
- ✦ Commissioning team for IRP Project, Abu Dhabi
- ✦ Revamp of PHRC (NNPC) Refinery, Nigeria
- ✦ TAM Management for KRPC (NNPC) Refinery, Nigeria
- ✦ Feasibility Report of setting up of a 100,000 BPD Refinery
- ✦ Due Diligence study of NNPC Refineries, Nigeria
- ✦ Manualisation of Refinery Process Units
- ✦ Implementation of Knowledge Management Portal for Refinery



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