

OIL REFINERY INSPECTION

Currently, 420 active oil refineries are operating worldwide which significantly impacts the supply chain of this commodity through their proper functioning and maintenance. Given the sensitivity and high value of these facilities, the use of standards and mandatory requirements for inspection and maintenance by qualified individuals is increasing on daily bases.

This course is designed to train competent personnel for inspecting refinery equipment. This course has been prepared in such a way that not only inspectors become familiar with all refinery equipment but also, they will learn how to inspect their performance. Additionally, this course is suitable for refining industries aiming to enhance the technical knowledge of their personnel.



Interactive discussions and Q&A sessions



Case studies from the trainer's experience



Individual consultancy with the trainer



Certificate of completion issued by the NAPC

ORI
COURSE

Course objectives

Refinery Philosophy and Processes
Damage Mechanism Insight and Inspection Rationale
Standards Assessment and Analysis
Enhancing Reliability, Preventing Shutdowns
Metallic Materials in Refineries
Understanding Inspection Standards' Purpose
Safe and Efficient Plant Operation Methods
Smart Inspection for Cost Optimization

Proposed main syllabuses

The following syllabuses are proposed for the course.

- 01 Introduction to oil refinery process
- 02 Materials used in oil refineries
- 03 Active damage mechanisms in oil refineries
- 04 Design and fabrication
- 05 Assessment of inspection result
- 06 Inspection planning and execution
- 07 Repair strategy

Who should attend?

Inspectors: In-service & shutdown inspection

Engineers: Design, planning, integrity management

Plant Managers & Integrity Teams: Operational oversight

Course duration and exam

5 days(40 hours) course with a one-day exam; The exam comprises two sections closed-book theory & open-book case study

The course is including theory and practical sections,

Practical segment employs tailored case studies to enhance candidates' real-case assessment skills.