

■ **Course title:**

Reliability and Maintenance Management Fundamentals for Fertilizer Plants

■ **Introduction:**

The course concentrates on the development and application of maintenance plans and procedures that are optimised from the aspects of maintenance resources, costs and risk to the fertilizer company.

This training course provide guidance and establish the fertilizer industry approach for the delivery of good reliability and maintenance practices across the asset lifecycle for projects and existing operating facilities.

The aim is to provide a thorough understanding of reliability and maintenance strategy approaches to machinery, equipment and system maintenance so that these can be applied within the fertilizer plant, providing benefits including improved reliability, consistency and reduced maintenance and repair costs.

■ **Course outline:**

Lessons

1. Introduction
2. Application to new projects
3. Application to existing projects
4. Develop R&M management strategy and metrics
5. Employ an organization that supports R&M
6. Develop and use production availability models
7. Identify critical systems and equipment
8. Select equipment based on life-cycle cost
9. Incorporate maintainability into design
10. Preserve new equipment
11. Determine reliability envelopes
12. Identify spare parts
13. Develop a reliability and maintenance program

Author(s) / Trainer(s):



Bogdan Bratescu

Reliability and Maintenance Specialist,

Bogdan is a maintenance engineer in Fertilizer Industrial Services.

He has a wide range of experience gained during the 27 years spent in the field of construction, commissioning, maintenance and operation of Oil & Gas Facilities in Upstream and Refineries and Ammonia and Urea Plants.

During these years he held the following positions: Mechanical Supervisor; Maintenance Superintendent; Mechanical Superintendent Construction; Project Engineer; Maintenance Engineer; Operability & Maintainability Coordinator; Head of Maintenance Engineering Department; Shutdown and Turnaround Coordinator; Senior Reliability Engineer; Project Manager, Maintenance Manager; Operation Readiness & Assurance Lead.

In the last 24 years he worked with one of the biggest IOC's, NOC's & EPCC's companies such as Shell, Exxon Mobil, BP, ENI, OMV, Snamprogetti, UHDE GmbH, Technip, KBR, Casale, NNPC (Nigerian National Petroleum Company, NIOC (National Iranian Oil Company, NOC (Libyan National Oil Company), SOCAR (Azerbaijan National oil Company).

14. Manage engineering data, documents and drawings
15. Monitor equipment condition
16. Conduct basic care
17. Eliminate defects
18. Apply rigor to work management
19. Optimize Preventive Maintenance and Predictive Maintenance Programs
20. Conduct R&M assessments
21. Incorporate maintenance input to Capital Value Process for Turnarounds
22. Preservation for equipment out of service
23. Manage obsolete equipment
24. Project specific Reliability and Maintenance requirements
25. Reliability and Maintenance Key Performance Indicators

■ Learning outcomes:

By the end of this training course you will understand:

- Underpinning of the delivery of the reliability & maintenance framework.
- Good reliability and maintenance practice within new projects and existing operating facilities.
- Mandatory requirements necessary to deliver the reliability & maintenance framework requirements and confirm the adoption of good reliability and maintenance management practice.

■ Who will benefit:

This course is for those involved in any aspect of reliability and maintenance management, including project managers, operations managers and reliability and maintenance professionals and practitioners.

■ Course materials:

- Hand-out presentation slides in PDF format

■ Price:

€ 950

■ Discounts:

- 2 places – 10% discount
- 3 places – 15% discount
- 4 or more places – 20% discount.

■ **In-company training:**

This course is also available as an in-company course (face-to-face or online) where content can be customised to meet your organisation's specific needs and delivered on a date/location that suits your requirements.

[Contact us](#) for more information.

■ **Training code:** MECH01