

■ **Course title:**

Ammonia Storage Tanks Decommissioning and Recommissioning Training

■ **Introduction:**

Ammonia Storage Tanks are an integral part of any ammonia plant and the safety and integrity of these tanks are of utmost importance to the operating companies and to the communities at the location.

This training covers the de-commissioning & commissioning activities for tanks depletion, warming up, purging with nitrogen and air and creating the condition for internal inspection.

The de-commissioning section includes the hot ammonia purging, nitrogen purging, air purging and readiness for inspection test certificate. The training course includes the step by step instructions during commissioning & start-up of the tanks.

Duration 7 hours.

■ **Course outline:**

Lessons

1. Introduction
2. Preparation
3. DECOMMISSIONING SCOPE OF WORK
4. Emptying the tank
5. Tank heating up process with hot nitrogen vapours
6. Key process parameters
7. Tank Valve Isolation for heating purpose
8. Inerting of system and purging with nitrogen
9. Gas sampling
10. Tank Blinding Location and Specifications
11. Over-Rides
12. Manway opening sequence
13. Purging the tank with air
14. Tank Entry

Author(s) / Trainer(s):



Dan Cojocar

Ammonia Process Safety Consultant,

Dan has over 20 years of operational, engineering and consultancy experience in ammonia plants and LNG projects.

He started his career as a field operator at ammonia plant and worked his way up being uniquely exposed to Operator, Licensor and EPC worlds on his professional path. His experience in all project phases starting from Concept and Front End Engineering (FEED) through Detailed Design, Commissioning and Operation is extensively enhanced by his Process Safety expertise. All of that brings Dan to founding Fertilizer Industrial Services – the UK based company providing Owner Engineer support to fertilizer companies developing greenfield and revamp projects. The team experience is also shared with operators and engineers worldwide via online training courses of Fertilizer Academy platform, and ammoniaknowhow.com industry forum.

Dan is a Chartered Chemical Engineer of The Institution of Chemical Engineers IChemE, a Registered Professional Engineer of Queensland (RPEQ) and senior member of American Institute of Chemical Engineers (AIChE).

15. Confined Space Entry Procedure
16. Preparations for Inspection
17. RECOMMISSIONING SCOPE OF WORK
18. Closure of vessel entry permit
19. Pneumatic test
20. Nitrogen Purging
21. Ammonia-Nitrogen Exchange
22. Tank Cooling Down
23. Detailed Commissioning Steps

■ Learning outcomes:

By the end of this training course you will understand:

- The Health and Safety aspects related to decommissioning of ammonia storage tanks
- How to development of a custom-made ammonia storage tank decommissioning and recommissioning procedure based on your ammonia storage tank specifics
- Additional checks and activities required during tank shutdown

■ Who will benefit:

Operators, process engineers, maintenance specialists and inspectors involved in operation, maintenance and inspection of ammonia storage tanks

■ Course materials:

- Hand-out presentation slides in PDF format

■ Price:

€ 850

■ 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:** TANK01