

■ **Course title:**

Introduction to Urea Process Technologies

■ **Introduction:**

This training course will discuss the various types of urea products, the urea market, trends, drivers and major players. Further, it will elaborate on urea process technologies, history, and current processes, including trends and challenges.

■ **Course outline:**

Module 1: Urea Product and Market (duration 1hr)

1. Urea product
2. Urea market trends and drivers

Module 2: Various Urea Process Technologies (duration 2hrs)

1. History of process technologies
2. Various process technologies currently in operation (Conventional, Stamicarbon, Snamprogetti, TEC, CASALE, NIIK and Chinese)
3. Challenges and trends in urea process technologies

■ **Learning Outcomes:**

By the end of this course, you will understand:

- The various types of urea products
- The urea market, its trends, drivers and major players.
- The various urea process technologies including its history
- The trends and challenges in urea process technologies

Author / Trainer:

Mark Brouwer

Process & Safety Engineer,
Urea Expert

Mark has over 25 years of licensing, revamping, engineering and consultancy experience in urea projects. He has been visiting more than 100 urea plants located in almost all continents.

Mark has experience in all project phases starting from Concept and Front End Engineering (FEED) through Commissioning and Operation. He is a Master of Chemical Engineering, Post Bachelor in Safety for Engineers, Marketing and Business Strategy Courses at the Rotterdam School of Management and a Member of American Institute of Chemical Engineers (AIChE).

Mark has extensive experience in revamp studies, engineering and process safety consultancy services to EPCM companies and urea plants including the preparation of Revamp and Plant Assessment and Safety Reports, hazard identification and analysis, troubleshooting, risk registers, corrosion inspections, procurement services, training services, etc.

Mark's expertise are Process technology, Corrosion, Licensing, Engineering, Revamping, Marketing, Sales, Contract negotiations, Troubleshooting, Project Management, International business, Safety, high pressure urea valves, high pressure urea equipment.

Mark has provided extensive training programs to more than 1000 urea engineers, managers, (shift)supervisors and operators from all over world.

Mark has published numerous technical papers in reputable industry magazines and presented at numerous CRU Nitrogen & Syngas and AIChE Ammonia Safety Conferences.



Who will benefit:

Anyone who is involved in the design, engineering, operation and maintenance of any urea plant, including marketing, sales, business development of urea products or urea production technologies or production equipment, including:

- Engineers and Managers
- Operations
- Maintenance
- Marketing and Business Development Managers
- Safety, Health and Environmental Managers

Course materials:

- Hand Out Presentations in pdf format
- Technical Paper: Urea, its history and applications in pdf format
- Technical Paper: Comparison Stamicarbon Saipem Part 1 – Process Technologies

Price:

€ 350

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: UREA02