

Learn how to load and reduce catalysts more effectively

A Start & Operate™ course from
Topsoe Academy™ for ammonia,
hydrogen, methanol and syngas plants

Effective catalyst loading and reduction is the first step to optimized performance and maximum lifetimes. A Topsoe Catalyst Loading & Reduction training course gives you the insight you need to reduce and load for success.

With an emphasis on both planning and execution, our flexible, tailored Catalyst Loading & Reduction course will help you achieve smooth collaboration with the Topsoe Engineer to ensure reduction process with no delays and with maximum performance once your plant is operational. As with all Topsoe technical training, this course leverage our unique position as both catalyst supplier and technology licensor to give you efficiency-boosting insight you won't find anywhere else.

What does Catalyst Loading & Reduction training cover?

A Topsoe Catalyst Loading & Reduction course can range from a brief appetizer session that helps you understand the key elements related to loading and reduction to an extensive course, going in depth with different loading methods, reduction set-ups and safety precautions.

Depending on which of the three levels you choose (see below), a course can give you:

- Recommendations on how you can maximize the cooperation with the Topsoe engineer on site during loading and reduction
- Insight into the effect of loading and reduction on the lifetime and performance of your catalysts
- Understanding of how proper preparation prior to loading and reduction will reduce the risk of subsequent challenges

- Recommendations on how to ensure the safety of your loading crew during loading
- Catalyst reduction walk-through emphasizing common mistakes and potential pitfalls, and ways to avoid critical situations and/or delays

Topsoe Academy™

Topsoe Academy™ is devoted to helping ammonia, hydrogen, methanol and syngas plants improve their operations and profitability through insight into catalysts, processes, technologies and Topsoe technical services. For each training theme, different “levels” of training courses are available – from brief intro sessions to multi-day workshops with optional certification. This multi-level approach creates opportunities for modular learning, where you can design a tailor-made training program consisting of several courses, each taught at the level of your choice.

All training is conducted by Topsoe experts and is tailored to suit the participants’ level of experience.

Consider pairing this course with:
Our half day add-on course on ammonia reduction and loading if you are planning to replace your ammonia synthesis catalysts (for ammonia plants only)

Certified by Topsoe™

A Topsoe certification is a formal recognition from Topsoe Academy™ that an individual has demonstrated a comprehension of and proficiency within a specific body of knowledge. Certification is optional and is achieved by completing the highest-level course under a given theme and then passing an examination.

Find out more

To learn more about our Catalyst Loading & Reduction course and other Topsoe training courses, email academy@topsoe.dk or contact your local Topsoe sales representative.

Scope of training	Level 1	Level 2	Level 3
Duration	1 hour	3-4 hours	7-8 hours
Lecture	Yes	Yes	Yes
Individual exercises and discussions	No	No	Yes
Certification & examination (optional)	No	No	Yes

For more in-depth descriptions, please refer to our individual training sheets.



Get in touch today
topsoe.com/contact