



Online course

Refrigerated Transport Technology

Would you like to understand how refrigerated transport equipment works? Would you like to learn how your settings affect the climate conditions during reefer transport? Then this course is ideal for you. Temperature controlled transport by reefer containers and trucks is an important topic in the logistics chain of temperature sensitive goods. Extended knowledge on the complex subject of refrigeration helps to improve climate control and energy efficiency in a safe manner, extend shelf life and minimize waste.

Target group

This online course is designed for professionals responsible for and/or interested in reefer transport of fresh in temperature controlled cargoes e.g. fruits, meat, fish, seafood, vegetables, dairy and non-food products e.g. flowers and pharmaceuticals. Both technical and non-engineering educated professionals can join this course.

Results

After completion of this course, you have learned the basics of refrigerated transport technology and understand how to apply this technology to control temperature, humidity and gas atmosphere conditions during transportation in an energy-efficient way leading to optimisation of the total cold chain.

The climate chamber test learnings that are used in this course give you unique insights and learning experience.

Date 9 June – 5 July 2022

Location Online

Duration 4 weeks,
12 hours in total

Course leader Eelke Westra MSc, Wageningen
Food & Biobased Research

Outline and topics

This course offers you an attractive mix of 3 online Q&A sessions with self-study including pre-recorded Weblectures from WUR subject matter experts, supporting PDFs, knowledge clips and a virtual explanatory visit in a reefer container. Online you can consult the experts directly and interact with fellow students. Quizzes are offered throughout the course to test your knowledge. Together you will explore the future challenges of:

- Using refrigerated transport to full effectiveness.
- Thermodynamics principles of refrigeration systems.
- Insights in advanced conditioning technologies.



Programme

Within 12 hours this course will guide you through the many interesting facets of this specialised form of transport. The **joined kick-off** is on **Thursday 9 June at 12.00 hrs**, from then onwards you have access to the learning materials. On 2 more dates sessions with our experts are scheduled. These online Q&A sessions last up to 90 minutes, are recorded and can be watched later. *All times are scheduled in CEST / UTC+2.*

Module 1 Introductory

- Course introduction, getting to know each other
- The importance of understanding refrigerated transport technology
- Online Kick-off session: **Thursday 9 June, 12.00 hrs**

Module 2 Refrigeration in reefer containers

- Basics of refrigeration technology, reefer container basics and settings, factors affecting temperature deviations in reefers
- A virtual explanatory visit in a reefer container
- Online Q&A session: **Thursday 23 June, 12.00 hrs**

Module 3 Climate control in transport modalities

- Refrigerated trucks and reefer containers. humidity, evaporation and its consequences, controlled atmosphere, air purification
- Online Q&A session: **Tuesday 5 July, 12.00 hrs**
- Evaluation and certificates

Technical aspects

This course is available on the online learning platform of WUR. Participants sign in with their personal learners account. To follow the course a valid e-mail address is required, speakers or headphones are needed to join and speak up in the Q&A sessions.

Practical information



The course fee is € 675,- per person and gives you 2 months access to the online course content.



Between 15 and 60 participants.



After completion of this course a personalised certificate is issued.

Registration

Enrollment is possible until 22 May 2022, or until the maximum number of participants is reached. Register via www.wur.eu/academy

[Register](#)

Wageningen Academy

We develop and organizes trainings and courses for professionals, based on Wageningen University & Research expertise.

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tomorrow's business