



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? Than 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 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.

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

Date	2 - 30 November 2023
Location	Online
Duration	4 weeks, 12 hours in total

Course leader *Dr ir. Leo Lukasse,*
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 our 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 2 November 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 CET / UTC+1.*

Module 1 Introductory

- Course introduction, getting to know each other
- The importance of understanding refrigerated transport technology
- Online Kick-off session: **Thursday 2 November, 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 16 November, 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: **Thursday 30 November, 12.00 hrs**
- Evaluation and certificates



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



Between 15 and 60 participants.



Based on your attendance you will receive a certificate after the programme is finished.

Registration

Enrollment is possible until 15 October 2023, or if the maximum number of participants is reached. Register via wur.eu/academy.

[Register](#)

Wageningen Academy

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

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