

Intralogistics Systems and Processes

This course introduces you to essential systems and crucial processes of intralogistics, such as transportation, material handling, production planning, warehouse operations, order picking and product identification. After completing this course, you will be able to understand planning strategies as well as different practical approaches as to storing, moving and tracing goods along the value chain within the production process.

The lecture is split in two phases.

The first half of the course (English for Logistics) reviews your English proficiency and will provide you with a solid foundation of specific language skills referring to the topics to be covered in the second phase.

The second half of the course (Logistics Skills) builds on the previously acquired language skills and illustrates fundamental concepts, underlying planning tools as well as sample calculations for processes in intra-company logistics networks. A strong emphasis will be put on the flow of material from inbound to outbound along with the appropriate design and management thereof. Where applicable, examples from industry will be used to provide illustrations of the concepts in practice.

The main topic areas we will focus on are:

- Plant Layout Design
- Production Processes and Material Handling
- Warehousing
- Order Picking and Shipping
- Identification Systems and Traceability

Additionally, we will discuss:

- Historical Backgrounds
- Logistics Basics
- Disciplines in Logistics
- Transportation

Assessment: written exam

Lecturer: Prof. Dr. Müller / LK Sponheimer

ECTS: 4