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Course offer

Logistics Engineering

2025-2026

LOGISTICS ENGINEERING

Logistics Engineering is a broad and challenging programme. You learn how to manage and optimize various logistics streams in, for example physical distribution and human logistics. Physical distributions is all about worldwide transport, storage, planning and communication between different parties. Human logistics focuses on human streams, for example in health service or at a big event.

The Dutch Top Logistics Team's "Score to the top" report¹ defines logistics as the knowledge and skills needed to efficiently, sustainably and effectively plan, organize, execute and manage the goods and information flows and any associated financial flows from raw material to the end product". This includes return flows and reuse, both within one company and between companies. The term 'logistics' therefor includes Supply Chain Management, Logistics management and Transport management.

Perhaps more than in any other profession, a logistician needs to be able to act as both a specialist and a generalist. Specialist intervention is required for logisticians involved in a specific component within the chain, for example a production or distribution manager. A generalist perspective is required to ensure that the entire chain can operate as efficiently and effectively as possible. The young starting logistician is expected to be able to coordinate at least two links within the chain and be actively involved with all of a company's logistical development stages.



<https://wifinowglobal.com/news-and-blog/vck-logistics-becomes-wi-fi-now-official-logistics-partner-2019/>

Logisticians focus on the optimisation of processes. This should be understood in the broadest sense. The logistician needs to make decisions, by mutual consent, regarding the:

- (physical) set up of i.e. a warehouse, production operation, chain and/or network;
- management (the way in which processes are controlled);
- information provision;
- personal organization: the effective coordination between logistics and other functions within the organization.
- Adapting new technology for creating optimizations in logistics

¹ National Logistics Platform higher vocational education, November 2019

These decisions are dependent on the logistical objectives posed. The logistical objectives concern the optimisation of customer service in conjunction with the overall costs.

Graduated logisticians are employed by (inter)national SMEs or large industrial and service companies. In the world of SMEs and non-profit organizations, such as governments and hospitals, a starting position at management level is no exception. Among the large organizations, the young logistician will advance to a management position through various specialised positions.

Specialist functions concern specific clusters of activities, such as purchasing, production, transport, warehousing and customer service. The professional field is very diverse due to the differences in the level of logistical development among companies. Depending on the size of a company, graduates can within a few years advance from employee or planner to for instance management and executive positions. This career growth applies to the various professional situations: supply chain, transport, warehouse and production. Additionally, there are other positions such as consultant, project staff member and manager and specialist in logistical ICT applications. Logistics professionals are also found in the logistics sector, industry and commerce. Finally, logisticians also find work in other sectors (professional situations) such as ICT, healthcare, government, banks and insurance companies.

COURSE OFFER ACADAMIC YEAR 2025-2026.

1st Year: Fall semester (Quarter 1+2) Spring semester (Quarter3+4)

	Quarter 1		Quarter 2		Quarter 3		Quarter 4	
Year 1	The Transport specialist		The DC engineer		The Event organizer		The Purchasing and Operations manager	
	CU70102VX ² The Transport specialist	5	CU70112VX ² The DC engineer	5	CU70132VX ² The Event organizer	4	CU70142VX ² The Purchasing and Operations manager	2,5
	CU70104VX ² Introduction to international logistics	2,5	CU70114VX ² Warehouses and DC's	2,5	CU70134VX ² Human logistics 1 – Event logistics	2,5	CU70144VX ² Purchasing management	2,5
	CU70106VX ² Intermodal transport	2,5	CU70116VX ² Business & Information Systems INT	2,5	CU70136VX ² Applied statistics for Logistics	2,5	CU70146VX ² Operations management INT	2,5
	CU70108VX ² Logistics financial management 1	2,5			CU70138VX ² Organisation & management LE 1	2,5	CU70148VX ² Workshops Excel & Simulation	2,5
					CU70118VX ² Logistics financial management 2	2,5	CU70150VX ² Organisation & management LE 2	2,5
	CU70122VX ² Personal development for study and profession LE 1		0,5		CU70152VX ² Personal development for study and profession LE 2		0,5	
CU70124VX ² Workshop Applied mathematics for Logistics		2,5		CU70154VX ² Research of logistical processes		2,5		
EN39002 / EN39003 / EN39004 ³ Foundation Course English B2, C1 or C2								5,0

² The 'X' after each course code means the most recent version of the course during the Academic year 2025-2026.

³ The course code depends on the outcome of the placement test which will indicate the level of English.

2nd Year: Fall semester (Quarter 5+6) Spring semester (Quarter 7+8)

	Quarter 5		Quarter 6		Quarter 7		Quarter 8	
	The Production planner		The International distribution manager		The Logistics project and change manager		The Supply chain manager	
Year 2	CU70202VX ⁴ Production planning & stock control	5	CU70206VX ⁴ Physical distribution	5	CU70213VX ⁴ The Logistics project & change manager	5	CU70221VX ⁴ The Supply chain manager	2,5
	CU70204VX ⁴ Maritime logistics and law	2,5	CU70208VX ⁴ Marketing and export management	2,5	CU70215VX ⁴ Project & change management	2,5	CU70223VX ⁴ Supply chain management INT	2,5
	EN22627VX ⁴ English for Logistics 2A – Concepts and Trends in Logistics	1,25	EN22628VX ⁴ English for Logistics 2B – Presentation Skills	1,25	CU70217VX ⁴ Management skills training	2,5	CU70225VX ⁴ Lean six sigma for logistics	2,5
					CU70219VX ⁴ Maritime reefer transport	2,5	CU70227VX ⁴ Smart logistics & Big data INT	2,5
							CU70229VX ⁴ Human logistics 2 – Care logistics	2,5
VCCU70285VX ⁴ HZ Personality LE1				1,25	EN70230VX ⁴ English for Logistics 2C – Research and Argumentation Skills			2,5
VCCU70286VX ⁴ HZ Personality LE2				1,25	VCCU70287VX ⁴ HZ Personality LE3			1,25
					VCCU70288VX ⁴ HZ Personality LE4			1,25

⁴ The 'X' after each course code means the most recent version of the course during the Academic year 2025-2026.

4th Year: Fall semester (Quarter 13+14)

When you already have an extensive logistical background it could be a possibility to choose for the specialization semester. The 4th year consists of the following (semester) courses.

	Semester 7 * (Quarter 13+14)	Semester 8
Year 4	Specialisation Supply chain management or Maritime logistics	
	CU05970V11 Logistics Information Systems	5
	CU15377V4 Preparation for graduation Logistics*	2,5
	CU15379V5 Management Development Training	5
	CU70401V1 Sustainable Supply Chains	2,5
	CU17009V4 Specialization Supply chain management or CU17011V6 Specialization Maritime logistics	15

* The course “preparation for graduation phase logistics gives students an in depth knowledge on developing a research proposal. This is according to the program standards on conducting research but can be very interesting if you have to conduct a research later on. Having a view on a graduation subject is important aspect to receive optimal revenues of this course.

Optionally, you can choose the courses below which are especially useful for exchange students.

- Dutch Culture & Language 2x 1,25 EC
- HZ Personality 2x 1,25 EC

We would like to emphasize that mixing courses from different years is allowed. However, lecture schedules from different years might overlap! In the worst case, the student is expected to learn the study material by doing self-studying. Details will be discussed with your study coach.

The full description of the courses can be found at the following link: <https://hz.nl/en/about-hz/rules-and-regulations> under “Regulations study programmes”.