

TRANSPORT AND LOGISTICS

OUR VISION

Victoria University's vision is to provide excellence in teaching and learning that is supported by research that has real benefits for industry and the community in Australia and overseas.

We aim to prepare work ready graduates and undertake research to support the implementation of business processes for the efficient movement and storage of everything from raw materials to finished goods and services, from point of origin to end use.

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**VICTORIA
UNIVERSITY**

**A NEW
SCHOOL OF
THOUGHT®**

EXPERTISE IN EDUCATION AND RESEARCH

HISTORY OF TRANSPORT AND LOGISTICS

Victoria University consolidated its commitment to transport and logistics in 2005 by establishing the Institute of Logistics and Supply Chain Management (ILSCM). ILSCM is strategically positioned to meet the supply chain management needs of industry in Australia and overseas by providing consultancy services, education and research.

According to the Australian Logistics Council, logistics operations within companies and logistics, transport and supply chain service providers account for approximately 14% of Australian Gross Domestic Product (GDP). The efficiency and effectiveness of the sector is vital to the global competitiveness of the Australian economy.

TRANSPORT AND LOGISTICS STRENGTHS

Transport and Logistics' strengths in education and research include:

- delivery of accredited courses in transport and logistics
- industry consultancy services
- customised industry training and accredited courses in supply chain management, logistics, purchasing, planning and scheduling, inventory, warehousing, transport and distribution, importing and exporting, sustainability through greener practices and carbon trading in supply chains
- research that explores the impact of global developments in the management of performance and productivity in logistics and transportation
- carbon accounting, optimisation tools, system dynamics, mathematical modelling and simulations to identify problems and predict the behaviour of supply chains
- reducing the cost of information congestion and isolation, and promote software re-use through identification of functionality, shared data, visibility of applications and extendable infrastructure

TRANSPORT AND LOGISTICS STUDENTS

Victoria University offers a range of programs to meet the needs of Transport and Logistics students, from entry level to executive development, including:

- up-skilling existing workforce at any level, including flexible part time programs
- tailored solutions to address client's workforce development needs
- traineeships in transport and warehousing
- responding to the learning needs of newly arrived skilled migrants and entry level English students, with English embedded in courses at Certificate I and II levels
- driver and plant preparation and assessment for licences

TRANSPORT AND LOGISTICS COURSES

Victoria University is uniquely positioned as the only institution in Victoria providing Logistics and Supply Chain education and training at all levels. We deliver accredited courses to meet industry licensing requirements, as well as Certificate and Diploma level TAFE qualifications, Associate Degrees, and Bachelor degrees through to postgraduate Masters and PhD studies.

Most courses in the Transport and Logistics are delivered by:

- School of Industry Skills Training
- School of Management and Information Systems
- School of General Education Programs & Services
- School of Business and Hospitality

Cross-faculty exchanges exist with some unit offerings.

TRANSPORT AND LOGISTICS CAREER PATHWAYS

We offer learning pathways to enable students to design their own career. Students can move from secondary school to courses at a Certificate level through to Diploma, Degree and PhD, including transition from:

- Diploma of Logistics and Diploma of International Business to the Bachelor of Business (Global Logistics and Transport)
- Certificate I to III (Warehousing and Storage, Road Transport, Stevedoring, Rail Operations) to Certificate IV (Logistics and Supply Chain Principles, Warehousing and Storage, Road Transport)
- Certificate IV (Logistics and Supply Chain Principles, Warehousing and Storage, Road Transport) to Diploma (Logistics)
- Diploma (Logistics) to an Associate Degree in Logistics
- Associate Degree in Logistics to a Bachelor of Business (Global Logistics)
- Bachelor of Business (Global Logistics) to Masters Program (Multiple Logistics Streams) to PhD

External pathways from other education providers into Higher Education courses also exist.

TRANSPORT AND LOGISTICS RESEARCH

ILSCM undertakes research projects in a variety of areas and continually develops new knowledge and technologies that can be applied in industries in Australia and overseas.

The ILSCM Logistics City project facilitates research in logistics infrastructure in the Western region of Melbourne. The aim is to identify synergies between various operational elements of logistics parks, intermodal freight terminals, freight consolidation hubs, regional 'feeding' hubs, and physical gateway ports and develop an efficient integrated logistics platform served by a 'Logistics City'. The Logistic City project provides a platform for efficient investment and infrastructure development, as well as regional trade and economic growth.

ILSCM research is focused on developing a scientific knowledge base and integrated policy framework to ensure the orderly development of Logistics City. Development of an NLC InfoPort as the Information Gateway Port will provide the connectivity and integrate many of the information and technology initiatives undertaken in Victoria over the last few years into a fully functional InfoPort.

ILSCM Logistics Laboratory has been established in collaboration with IBM to facilitate industry-academic and postgraduate research, as well as support for undergraduate project work. The laboratory aims to reduce development time, allowing researchers to focus on proof of concept projects that increase knowledge and address issues surrounding information congestion and isolation. It promotes software re-use through identification of common functionality, shared data (minimising data redundancy), and visibility of applications (maintainable software).

TRANSPORT AND LOGISTICS PARTNERS

ILSCM has established relationships and partnerships with government and small, medium and large national and multi-national enterprises. These partnerships provide opportunities for research, as well as learning in the workplace opportunities for students. Partners include:

- Global Procurement Services
- GS1 Australia Limited
- IBM
- Linfox Logistics
- Melbourne Public Train System
- REN Services – Victoria and Tasmania
- Supply Chain Council
- Toyota Australia

TRANSPORT AND LOGISTICS INTERNATIONAL LINKAGES

ILSCM has established a number of key partnerships in the Asia Pacific Region including:

China

- College of Logistics, Southwest Jiao Tong University
- Department of Management Sciences and Information Systems, Business School, Hohai University
- Department of Systems Engineering, North-Eastern University Shenyang
- Institute for Systems Engineering, Southeast University
- The Logistics Research Centre at Nankai University
- Southeast University
- China University of Mining and Technology
- Huaihai Institute of Technology
- Dalian University of Technology
- Beijing University of Technology

Taiwan

- Supply Chain Management Development Laboratory, Soochow University Taipei
- National Kaohsiung University of Applied Sciences

Denmark

- Department of Operations Management, Copenhagen Business School, Copenhagen

USA

- Robert H Smith School of Business, University of Maryland
- Department of Management, Worcester Polytechnic Institute, Worcester, Massachusetts

Others

- Cranfield University, United Kingdom
- ETH, Switzerland
- Kuehne School of Logistics at TUHH, Germany
- The Logistics Institute Asia Pacific, National University of Singapore

TRANSPORT AND LOGISTICS FACILITIES

The Logistics Laboratory aims to facilitate industry-academic and postgraduate research, as well as provide support for undergraduate project work.

The Industry Skills Training Centre at Werribee is a purpose-built complex which includes an operating warehousing, driver and plant equipment training facility.

CAMPUSES FOR TRANSPORT AND LOGISTICS

Campuses for delivery of the majority of courses are located at Werribee, Footscray Nicholson, Footscray Park, City Flinders, and at on-site locations.

CONTACT DETAILS

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www.vu.edu.au/industry-sectors

