

# HIRSCHMANN CERTIFIED INDUSTRIAL ETHERNET TRAINING COURSES



Future students exploring the City campus.

## Hirschmann at RMIT University

RMIT University delivers training and certification in Industrial Ethernet skills. Students can obtain technological expertise and manufacturer-independent certification as a Hirschmann Industrial Network Engineer (HiNE). Practical and product expertise are offered on the Hirschmann platform, allowing students to obtain the Hirschmann Industrial Systems Engineer (HiSE) certification.

Industrial Ethernet is a rapidly evolving technology for networking and communication. It is vital to a range of industries, including oil and gas, metals and mining, water, food, road, rail and air transportation, energy, manufacturing, and building automation.

Industrial Ethernet extends beyond the physical attributes of data communication equipment. A successful implementation requires knowledge surrounding total lifecycle from the physical and logical design, component selection, engineering and configuration, installation and testing, operations and maintenance, disaster recovery and expansions/upgrades.

The technology training courses are designed for system engineers, network designers, and trade and paraprofessional support technicians who are building, supporting, or migrating an Industrial Ethernet network.

RMIT University delivers the Hirschmann certified training courses for the Australia and New Zealand markets. Training is onsite anywhere in Australia and New Zealand, as well as on-campus at RMIT.

### FURTHER INFORMATION

Herb Weber or Wendy Gillies  
School of Engineering (TAFE)  
RMIT University

Tel. +61 3 9925 4468

Email: [herb.weber@rmit.edu.au](mailto:herb.weber@rmit.edu.au)

[wendy.gillies@rmit.edu.au](mailto:wendy.gillies@rmit.edu.au)

[www.rmit.edu.au/engineeringtafe/shortcourses](http://www.rmit.edu.au/engineeringtafe/shortcourses)

### RMIT UNIVERSITY

RMIT University is one of Australia's leading educational institutions, producing some of Australia's most employable graduates.

Beginning as the Working Men's College in La Trobe Street Melbourne in 1887, RMIT University has grown to become one of the largest in the country and has built a world-wide reputation for excellence in professional and industry education and research.

More than 74 000 students study at RMIT campuses in Melbourne, Vietnam, online, by distance education, and at 100 partner institutions throughout the world. A vibrant alumni community now stretches across more than 100 countries. More than 900 higher education and vocational education programs are offered across a broad range of fields. Many specialist programs are regarded as among the best of their kind in Australia.

For more information visit [www.rmit.edu.au](http://www.rmit.edu.au)





Gain an understanding of Ethernet and its role in industrial networking.

## PROGRAMS OFFERED

### Industrial Ethernet—CT1

In this Industrial Ethernet course participants will learn details of the technical fundamentals and deployment objectives of the world's most widely used LAN communication protocol. At the end of the course participants will have a good understanding of Ethernet, as well as its role in industrial networking, both now and in the future. For additional topics related to Industrial Ethernet, participants should attend the *Industrial Networking (CT2)* training course.

### Industrial networking—CT2

This course builds on the experience gained from *Industrial Ethernet (CT1)*, providing network experts with intensive theoretical and practical knowledge about TCP/IP, IP communication and multicasting. Special emphasis is placed on deploying TCP/IP and multicasting in complex industrial environments. This enables participants to provide comprehensive support, both for demanding projects and their daily work.



Intensive theoretical knowledge about TCP/IP, IP communications and multicasting.

### Industrial routing—CT3

This course builds on the experience gained from *Industrial Networking (CT2)*, providing network experts with intensive theoretical and practical knowledge about unicast and multicast routing. Special emphasis is placed on deploying routing protocols in complex industrial environments. This enables participants to provide comprehensive support, both for demanding projects and their daily work.



Build theoretical and practical knowledge of unicast and multicast routing.

### Rail family—theory and practice—CP1

In a professional environment participants receive in-depth knowledge about the OpenRail, OpenMICE, MACH, and OCTOPUS Layer 2 functionality. This includes installation, commissioning, and supervision. Training is part theory and part practice. The necessary knowledge about functions and deployment possibilities of the products are taught in individual theory blocks. Each block is followed by practical exercises, designed to familiarise participants with devices through first-hand experience.

### Network management with Industrial HiVision—CP2

Participants learn the functions of Industrial HiVision, and reinforce this knowledge with practical exercises. Following this two-day course participants can make effective use of Industrial HiVision to supervise and configure any size of Ethernet network.



Taught in individual theory blocks, each block is followed by practical exercises.

### Industrial backbone components—theory and practice—CP3

In a professional environment participants receive in-depth knowledge about the MACH and PowerMICE Layer 3 functionality. This includes installation, commissioning, and supervision. Training is part theory and part practice. The necessary knowledge about functions and deployment possibilities of the products are taught in individual theory blocks. Each block is followed by practical exercises, designed to familiarise participants with the devices through first-hand experience.



Network visualisation and management software.

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