

# Training Courses

Engineering & Maintenance

SAFETY  
NONSTOP



# Advanced System Training

Choice of on-site or HIMA  
training facility locations

## **Aim**

This course provides a complete overview of the safety lifecycle of a Programmable Electronic System (PES). It provides training on hardware and communication configurations including system architectures and maintenance along with the configuring, loading and modifying of a HIMA PES application program.

## **Duration**

4 days

## **Cost per head - HIMA training facility**

\$2,800 per person

## **Total cost – site based training.**

\$24,000

Note: maximum of 8 students per course



## Advanced system training: course contents

### Day 1

- Introduction to HIMA hardware
- Functional Safety Overview
- HIMA SIS Technology and HiQuad Components
- IEC 61131-3
- Introduction to ELOP II or SILworX

### Day 2

- Offline Simulation
- Introduction to IO Types
- Hardware Management & System Variables
- Code Generating, Loading and Reloading, Erasing Application
- Programming Exercise

### Day 3

- Online Test
- Archive and Restore
- Importing and Exporting Variables, IO and Communications
- Code Comparator and Revision Management
- HiQuad System Diagnostics

### Day 4

- System Maintenance
- Operating System Upgrades
- Communications
  - MODBUS
  - OPC
  - SOE
  - SafeEthernet
  - HIPRO-S

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Training tailored to suit  
your application

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# Maintenance and Troubleshooting Course

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Courses delivered by  
experienced HIMA  
TÜV Engineers

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## **Aim**

This training course provides the participant with the skills and knowledge to monitor and maintain a HIMA safety system.

## **Duration**

2 days

## **Cost per head - HIMA training facility**

Price per head \$1,400

## **Total cost – site based training**

\$13,500

Note: maximum of 8 students per course



## Maintenance and troubleshooting course contents:

### Day 1

- Introduction to HIMA hardware
- Functional Safety Overview
- HIMA SIS Technology and HiQuad Components
- Configuration, libraries, resource types, data types
- Structure of system software and projects
- Offline-Test and code generation of user programs

### Day 2

- Loading and starting of the HIMA Safety System
- Online-Test, forcing of I/O circuits
- Forcing of signals
- Exchange of modules during operations
- HiQuad System Diagnostics

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Attendees receive  
certificates and  
course manuals

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# General Course Information

Site course – one fixed cost for up to 8 people

## Prerequisites

- Experience using MS Windows operating systems and software
- Ability to comprehend P&ID drawings
- Understanding of digital logic

## Location

Training courses are delivered at our training centres in Perth, Melbourne or Brisbane. Alternatively site based courses can be arranged to maximise staff availability.

## Availability

Please visit [www.hima.com.au](http://www.hima.com.au) for the latest course schedule, although dates are generally flexible and we can usually cater around a working day of your choice. Please allow at least two weeks notice to confirm a course date in Perth and three weeks notice elsewhere.

## HIMA based training

Courses held at HIMA training centres include:

- Provision of training systems
- Documentation
- Lunch and refreshments



## Site based training requirements

For on-site training, HIMA requires the client to provide:

- Quiet and secure training room
- PC work stations (two students per PC)
- Data projector (1280 x 1024 resolution)
- Lunch and refreshments
- Large whiteboard

## Contact details

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Large selection of  
fixed dates available



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