

INDUSTRIAL Automation TRAINING

Advance your career

Professional Training

Obtained skilled staff

Optimize Productivity

Proven Results

Employers who invest in training and improving the skill level of their employees see increase in productivity, improved morale and greater job satisfaction. Train your operators and maintenance staff/s to use Omron's controls effectively for their day-to-day activities and to troubleshoot problems quickly so your organization can join the ranks of those experiencing a boost in productive output and attitude.



Reaching your Productivity Goals Through Training

Building Proficiency

Omron's proven hands-on training shortens the learning curve for those using industrial automation equipment for the First-timers and the experienced technicians. Participants will also learn the advanced functionality of an upgraded system. Our experienced instructors use a combination of proven teaching techniques and hands-on and real world application exercises to deliver focused information during the course. An Omron certificate of training completion stands for the satisfactory demonstration of learned skills. Let Omron deliver the training in a way that best fits your needs.



"Your company has invested substantial resources in new, more efficient control hardware and software with an eye toward increasing productivity. The next step towards that goal is by building an operation and maintenance staff/s fully trained to make the new equipment/s perform to the expectations".

By **understanding** your needs we can offer you the best training for the **industrial applications** you are likely to encounter.

We offer a total of 7 training courses covering the complete range of Omron's industrial automation products. As new products are developed we are introducing new courses all the time.

Training Venue

Trainings are conducted at the **Omron Training Center** in Makati City. Trainings can also be performed on-site for the convenience of the company and its staffs.


Customized courses

We recognize that you may have specific training needs based on your machines, operations and staffs.


You can discuss to us your requirements and our Training Team will develop and recommend the training course based on your needs.

courses and contents


BASIC 
ADVANCED 
PLC
PLC101: Basic PLC (2 days)

- Introduction to PLCs
 - Addressing
 - Simple to Intermediate programming
 - Transfer to and from PLC
 - Introduction to Ladder Type Function Block, Sequential Flow Chart and Structured Text Programming
 - Debugging and troubleshooting exercises
- 


PLC201: Special I/O Modules (2 days)

- PLC Special I/O Modules Programming
 - Configuration and wiring of Analog-Digital/Digital-Analog Converter, Temperature Controller, High-Speed Counter and Remote I/O (CompoBus/S) Modules
- 


**HMI
CONTROLLER**
HMI101: Basic HMI (2 days)

- Introduction to NS Series and NB Series Hardware range and CX- Designer Software package
 - NS and NB Menu Setting
 - Bit buttons, Word buttons, Command buttons and lamps
 - Numerical input/display
 - Test toll
 - Transfer to/from NS and NB
- 


HMI201: Advanced HMI (2 days)

- Introduction to SCADA using CX-Supervisor Software
 - Bit buttons, Word buttons, Command buttons and lamps
 - Numerical input/display
 - Alarm Handling
 - History/Event Display
- 


**MOTION CONTROL
FIELDBUS**
PLC301: Motion Control (2 days)

- Introduction to Motion Controls
 - PLC CPUs Built-In Pulse I/O for Servo Configuration and wiring
 - PLC instructions for PLC CPU's Built-In Pulse I/O Servo Controls
 - Position Control Module Configuration and wiring
 - Position
- 

PLC401: PLC Networking (2 days)

- System Specification
 - System wiring and configuration
 - Network Programming (CX-Integrator)
 - Routing table setting
 - System status area
 - Troubleshooting
- 

NEW! PLC501: Lean Automation (5 days)

- Introduction to PLC programming using CP1E block-type PLC
 - Configuration of CP1E High-speed Input and PLC Link
 - Modbus RTU Communication with the Frequency Inverters and Temperature Controllers
 - Configuration of CP1E Built-in Pulse Output with the Servo System
 - CP1E and NB Communication including NB Functions
- 

This course is designed to introduce engineers and technicians to PLCs. The trainee is shown how to use all the features of CX-Programmer whilst being introduced to basic PLC hardware and programming techniques. The course is primarily hands-on using dedicated training equipment incorporating Omron's CJ2 PLCs.

Course details

| | |
|---|--|
| Introduction to PLC technology: <ul style="list-style-type: none"> • Explanation of PLC terminology • System configuration • I/O addressing and memory map | Off-line programming: <ul style="list-style-type: none"> • Modifying, inserting and deleting programs |
| | Modifying and forcing software elements |
| Interfacing with a PLC: <ul style="list-style-type: none"> • Uploading and downloading application programs | Application of timers, counters and basic PLC Instruction |
| | Introduction to Function Block, SFC and Structured Text Programming |

The primary objective of the course is to provide a comprehensive introduction to the Omron range of PLCs and the CX-Programmer software. The course is suitable for engineers and technicians who have no prior knowledge of PLCs and experienced programmers who wish to learn to use the features of CX-Programmer.

PLC101

Basic PLC
 Training Course
 2 Days



Php 7,500 (USD171.00)*
 per person

* Exclusive of VAT

PLC201

Special I/O Modules Training Course 2 Days



Php 5,000 (USD114.00)*
per person

**Exclusive of VAT*

This course is designed to provide an operational knowledge of more advanced software instructions for PLC Special I/O Modules such as Analog I/O, Temperature Controller, High-speed Counter and Remote I/O (CompoBus/S). With a hands-on approach, the attendee is introduced to the special I/O modules set-up and addressing.

Course details

| | |
|--|--|
| Introduction to PLC Special I/O Modules: <ul style="list-style-type: none"> • Analog I/O • Temperature Controller • High-speed Counter • Remote I/O | Addressing |
| | Configuration and wiring |
| | PLC Special I/O's Programming |
| Construction and basic Principles of Special I/O's | Hands-on simulation and troubleshooting |

This course aims to equip the participants in basic programming and configuration of PLC Special I/O modules. Programming and monitoring are covered in detail, enabling the user to quickly diagnose and correct process faults on their PLC controlled installation. It is recommended that attendees have a good working knowledge of basic PLC concepts and CX-Programmer, or have attended the PLC101 course.

This course aims to provide engineers working in motion control with a strong background of application related skills when integrating Omron mechatronic products. Focusing on the CJ1M Built-in Pulse Output and NC Card Position Controller Unit, the course is modular in format. Each module consists of a hands-on, practical workshop. Dedicated training equipment and PC-based programming tools are used to assist attendees in developing new skills and to produce functionally correct and well-structured software solutions.

Course details

| | |
|--|--|
| Introduction to servo systems: <ul style="list-style-type: none"> • Closed loop systems • Pulse train signals • Servo sizing | PLC CPU's Built-In Pulse I/O settings and command instructions |
| | Hands-on program simulation |
| Interfacing with Omnic G5 Servo System: <ul style="list-style-type: none"> • Configuration and wiring | NC Card Position Control Unit settings and configuration |

This course is ideally suited to those engineers who are becoming, or are already involved in complex motion systems. It is recommended that attendees have an understanding of programming in a structured high level language, prior to participating in the PLC301 course.

PLC301

Motion Control Training Course 2 Days



Php 5,500 (USD123.00)*
per person

**Exclusive of VAT*

PLC401

PLC Networking Training Course 2 Days



This is a two-day training course covering the wiring and programming of Omron's CPU Bus Units such as Ethernet, ControllerLink and Devicenet modules. This course also covers the configuration and setting of Serial PLC Link. CX-One software are provided for hands-on experience using CX-Integrator to setup and monitor communications networks.

Course details

| | |
|---|-------------------------------------|
| Introduction to PLC CPU Bus Units: • Ethernet • ControllerLink • Devicenet | Network programming (CX-Integrator) |
| | Routing table setting |
| System specification | Data Link setting |
| System wiring and configuration | Troubleshooting |

The course is aimed at engineers who are familiar with Omron PLCs and software and who would like to learn more about PLC Networks. Upon completion of this course, the participants will learn how to configure Ethernet, ControllerLink and Devicenet networks to exchange large amounts of data at high speed. Discover how easy it is to access information from deep within multi-level networks. It is ideally suited to those who have attended the PLC101 training course.

Php 7,000 (USD156.00)*
per person

*Exclusive of VAT

This is an application course using NS and NB Human-Machine Interface (HMI) and CX-Designer/NB-Designer software package. The course focuses on the integration of a PLC and HMI. The course is a mixture of theory and practical covering basic aspects of NS and NB operations. Full training equipment is provided to allow the attendee to complete a number of examples and problems.

Course details

| | |
|--|---|
| <p>Introduction to NS Series And NB Series Hardware range:</p> <ul style="list-style-type: none"> • Ports and communication options | <p>Interfacing with a PLC:</p> <ul style="list-style-type: none"> • Uploading and downloading application programs |
| <p>NS and NB Programming:</p> <ul style="list-style-type: none"> • Menu setting • Set-up projects and screens • Design alarm and event displays | <p>Hands-on exercises and program simulation</p> |

This course is intended at those who have a basic knowledge of the PLC, and who now want to understand or modify an ‘NS’ and ‘NB’ range of displays application. It is ideally suited to those who have previously attended an PLC101 training course, building on PLC knowledge to become proficient and confident in creating both PLC and NS and NB software solutions.

HMI101

Basic HMI
Training Course
2 Days



Php 7,500 (USD 171.00) *
 per person

*Exclusive of VAT)

HMI201

Advanced HMI (SCADA) Training Course 2 Days



This course is designed to introduce the participants in PC-based HMI known as SCADA. Using Omron's SCADA software, CX-Supervisor, the attendee is established to more advanced programming for a wide range PC-based HMI requirements. The course is a mixture of theory and practical covering basic aspects of SCADA operations.

Course details

| | |
|---|-----------------------|
| Introduction to SCADA: <ul style="list-style-type: none"> • Applications • Functions | Alarm handling |
| | History/Event Display |
| Introduction to CX-Supervisor Software: <ul style="list-style-type: none"> • System Configuration and Requirements • Programming | Supervisory control |
| | Program Simulation |

This course is aimed to equip those who are involved in the monitoring and operation of machine controls. Using CX-Supervisor, the attendee will build on basic PC-based HMI knowledge to become proficient and confident in creating SCADA solutions. It is recommended that attendees have a good working knowledge of HMI and PLC.

Php 8,000 (USD 182.00)*
per person

*Exclusive of VAT)

This is a five-day training course will cover the latest innovation in automation – Lean Automation. This course is focused in utilizing Omron’s Lean Automation Pack which includes micro PLC (CP1E block-type PLC), programmable terminal (NB Series HMI), programming software, etc.

Course details

| | |
|---|---|
| Basic PLC programming using CP1E PLC | Configuration of CP1E built-in Pulse Output with the Servo System |
| Configuration of CP1E High-speed Input and PLC Link | CP1E and NB (HMI) communication including NB functions |
| Modbus RTU communication with the Frequency Inverters and Temperature Controllers | Program simulation |

The primary objective of the course is to provide a comprehensive introduction to the Omron’s newest, cost-effective and simple way of automation known as Lean Automation. It is a launch to Omron’s range of Lean Automation products such as CP1E PLC and NB HMI. Upon completion of this course, attendees will take in the benefits of Lean Automation. The course is suitable for engineers and technicians who have no prior knowledge of PLCs and experienced programmers who wish to learn and explore Lean Automation.

ALL-in-one training!
PLC501

**Lean Automation
Training Course
5 Days**



Php 20,000 (USD456)*per person

*Exclusive of VAT)

Your Fastest Way to Automate Machinery

Servo Option

OR

AC Drive Option

Lean Automation Packs deliver everything you need for small machine automation in one scalable package.

- Slash engineering time by 50%
- Space savings with ultra compact components
- Single software suite does it all
- Easy setup and operation

Ready-to-install with controller, operator interface, software, cables and components.

Together we can automate your machine.

Reduced Engineering Effort

High Flexibility

Lean Automation

Greater Profitability

Simple Operation

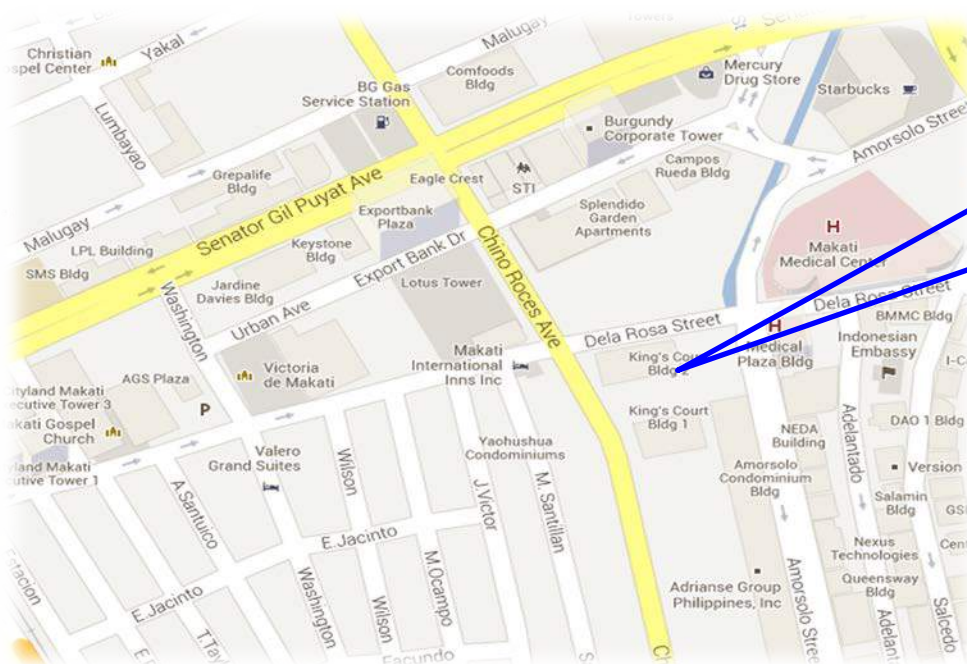
Package Trainings

| Package | PACKAGE 1 | PACKAGE 2 | PACKAGE 3 | PACKAGE 4 | PACKAGE 5 |
|-----------------|-------------------------------------|--|---|--|---|
| Duration (days) | 12 | 4 | 6 | 8 | 6 |
| Price : Php/USD | PHP37,000/ USD 842 | PHP11,000/ USD250 | PHP18,000/ USD409 | PHP22,000/ USD500 | PHP19,000/ USD432 |
| | ALL COURSES <i>Except PLC501</i> | <input checked="" type="checkbox"/> PLC 101 Select one: <input type="checkbox"/> PLC 201 <input type="checkbox"/> PLC 301 | <input checked="" type="checkbox"/> PLC 101 Select two: <input type="checkbox"/> PLC301 <input type="checkbox"/> PLC401 <input type="checkbox"/> HMI101 | <input checked="" type="checkbox"/> PLC 101 <input checked="" type="checkbox"/> PLC 201 <input checked="" type="checkbox"/> PLC 301 <input checked="" type="checkbox"/> PLC 401 | <input checked="" type="checkbox"/> PLC 101 <input checked="" type="checkbox"/> HMI 101 <input checked="" type="checkbox"/> HMI 201 |

Notes:

1. All prices are exclusive of VAT.
2. Schedule of Package Training will follow the regular training schedule.
3. Inclusive of morning and afternoon snacks, lunch, handouts and training certificate
4. Venue is at Omron Training Center.
5. Rates will vary for on-site training.
6. We also offer Customized package training.
7. PLC101 is the pre-requisite to all courses.

Training Venue



Omron Training Center
2/F King's Court Building II
2129 Chino Roces Avenue,
Makati City

For inquiries please contact:
OMRON ASIA PACIFIC PTE. LTD.

☎ (02) 811-2831 📠 : (02) 811-2583
✉ ph_enquiry@ap.omron.com
phcustomerservice@ap.omron.com
racquel_r@ap.omron.com

Training Schedule 2017

| COURSE | PLC 101 | PLC 201 | PLC 301 | PLC 401 | HMI 101 | HMI 201 | PLC 501 |
|--------------------|---------|---------|---------|---------|---------|---------|--------------|
| Duration (Days) | 2 | 2 | 2 | 2 | 2 | 2 | 5 |
| Jan | 10-11 | 12-13 | 17-18 | 19-20 | 24-25 | 26-27 | Upon Request |
| Feb | 2-3 | 7-8 | 9-10 | 14-15 | 21-22 | 23-24 | Upon Request |
| Mar | 7-8 | 9-10 | 14-15 | 21-22 | 23-24 | 28-29 | Upon Request |
| Apr | 4-5 | 6-7 | 18-19 | 25-26 | -- | -- | Upon Request |
| May | 4-5 | 9-10 | 11-12 | 16-17 | 23-24 | 30-31 | Upon Request |
| June | 1-2 | 6-7 | 15-16 | 20-21 | 22-23 | 29-30 | Upon Request |
| July | 4-5 | 6-7 | 11-12 | 18-19 | 25-26 | 27-28 | Upon Request |
| Aug | 1-2 | 8-9 | 15-16 | 22-23 | 24-25 | 29-30 | Upon Request |
| Sep | 5-6 | 12-13 | 14-15 | 21-22 | 26-27 | 28-29 | Upon Request |

Note: Schedule may change or cancelled without prior notice.

REGISTRATION

| Participant's Name | Designation | Course Code/ Package Code | Training Date |
|--------------------|-------------|---------------------------|---------------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Please tick on the appropriate boxes for PACKAGE 2 or 3: **PACKAGE 2** **PACKAGE 3**

PLC 101 PLC 101

Select one: PLC 201 PLC 301

Select two: PLC 301 PLC 401 HMI 101

Company Details

Company Name : _____

Address : _____

Tel : _____ Fax: _____

Authorized by : _____

Department : _____ Designation : _____

Email : _____

_____ Signature (Authorized) _____ Date

Please reserve _____ parking slot Plate Number _____ Car Make _____

TERMS AND CONDITIONS

1. Registration form must be filled-up completely and must be faxed or sent through email to Omron and must be acknowledged received. NO REGISTRATION FORM-NO TRAINING.
2. Omron will confirm the date of the training. If schedule is unavailable, registrant will be given new schedule.
3. Omron reserves the right to make appropriate changes to its trainer, course schedule and course outline if it deems necessary.
4. Payment should be made or before the scheduled training.
5. Payments shall be shall be payable to any OMRON Authorized Distributors accredited in your company. In the absence thereof, Omron shall assign one. Official Receipts and/or invoices will be issued by them.
6. Prices are subject to change without prior notice.
7. Personal check payments are not accepted.

For inquiries please contact:

OMRON ASIA PACIFIC PTE. LTD.

☎ (02) 811-2831 📠 : (02) 811-2583

✉ ph_enquiry@ap.omron.com • phcustomerservice@ap.omron.com • racquel_r@ap.omron.com