

# **Training Courses 2012**

# A Comprehensive Automation Solution

## Automation System



Programmable Controller



Programmable Terminal



Motion Control



Industrial Network



IT/ Software Products



Wiring and Connection System

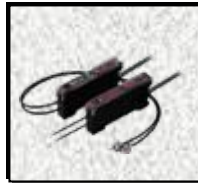
## Sensing Solution



Photoelectric Sensor



Rotary Encoder



Optical Fiber Sensor



Photo micro Sensor



Proximity Sensor



Pressure Sensor



Smart Sensor



Vision Sensor



Safety Sensor



Displacement Sensor



Ultrasonic Sensor



Profile Sensor

## Industrial Components



Temperature Controllers



Timers



Counters



Digital Panel meters



Level Controllers



Limit Switches



Relays



Power Supplies

# Reaching Your Productivity Goals Through Training

*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.*

## 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.



## 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.

## PLC 101: Basic to Intermediate Level PLC Programming

<b>Objective</b>	This course aims to equip the participants in basic to intermediate writing of control program using CJ1M PLC
<b>Course Outline</b>	<ol style="list-style-type: none"> <li>1. Introduction to Programmable Logic Controllers ( System Configuration and Sizing Up of Omron PLC)</li> <li>2. Ladder Programming Concept and Restrictions</li> <li>3. Introduction to CX-Programmer Software</li> <li>4. Commonly Used Basic to Intermediate PLC Instructions with Hands-On Exercises</li> <li>5. Introduction to Ladder Type Function Block Programming</li> </ol>
<b>Duration</b>	2 days (9am-5pm)
<b>No. of Participants per Batch</b>	Minimum of 2 and maximum of 8
<b>Training Fee per Participant</b>	PhP 6,500.00 + 12% VAT <i>(Inclusive of morning and afternoon snacks, lunch, handouts and training certificate)</i>
<b>Pre-requisite</b>	None

## PLC 201: PLC Special I/O's Programming

<b>Objective</b>	This course aims to equip the participants in basic programming and configuration of PLC Special I/O modules such as Analog I/O, High Speed Counter Input, Temperature Input, and Remote I/O
<b>Course Outline</b>	<ol style="list-style-type: none"> <li>1. Analog Module Configuration and Wiring</li> <li>2. High-Speed Counter Module Configuration and Wiring</li> <li>3. Temperature Module Configuration and Wiring</li> <li>4. CompoBus/S Module Configuration and Wiring</li> <li>5. PLC Instructions for Special I/O Modules Programming</li> <li>6. Program Simulation</li> </ol>
<b>Duration</b>	2 days (9am-4pm)
<b>No. of Participants per Batch</b>	Minimum of 2 and maximum of 8
<b>Training Fee per Participant</b>	PhP 4,200.00 + 12% VAT <i>(Inclusive of morning and afternoon snacks, lunch, handouts and training certificate)</i>
<b>Pre-requisite</b>	PLC 101

## PLC 301: PLC-Based Motion Control Programming

<b>Objective</b>	This course aims to equip the participants in basic programming, configuration and integration of Omron Servo Motors and Drives with PLC
<b>Course Outline</b>	<ol style="list-style-type: none"> <li>1. Introduction to Motion Controllers</li> <li>2. PLC CPU's Built-In Pulse I/O for Servo Controls Configuration and Wiring</li> <li>3. PLC Instructions for PLC CPU's Built-In Pulse I/O Servo Controls</li> <li>4. Position Control Module Configuration and Wiring</li> <li>5. Position Control Module Programming</li> <li>6. Program Simulation</li> </ol>
<b>Duration</b>	2 days (9am-4pm)
<b>No. of Participants per Batch</b>	Minimum of 2 and maximum of 8
<b>Training Fee per Participant</b>	PhP 5,250.00 + 12% VAT <i>(Inclusive of morning and afternoon snacks, lunch, handouts and training certificate)</i>
<b>Pre-requisite</b>	PLC 101

## PLC 401: PLC Networking

<b>Objective</b>	This course aims to equip the participants in basic settings and configuration of PLC Communication (Network) modules
<b>Course Outline</b>	<ol style="list-style-type: none"> <li>1. Introduction to Ethernet, Controller Link and Devicenet</li> <li>2. Ethernet Module Configuration</li> <li>3. Controller Link Module Configuration</li> <li>4. Devicenet Module Configuration</li> <li>5. Introduction to CX-Integrator Software</li> <li>6. Creating a Routing Table</li> </ol>
<b>Duration</b>	2 days (9am-4pm)
<b>No. of Participants per Batch</b>	Minimum of 2 and maximum of 8
<b>Training Fee per Participant</b>	PhP 6,000.00 + 12% VAT <i>(Inclusive of morning and afternoon snacks, lunch, handouts and training certificate)</i>
<b>Pre-requisite</b>	PLC 101

## HMI 101: Basic HMI Programming

<b>Objective</b>	This course aims to equip the participants knowledge in the integration of HMI (Human Machine Interface) and PLC Using NS5 PT
<b>Course Outline</b>	<ol style="list-style-type: none"> <li>1. Introduction to Human Machine Interface</li> <li>2. HMI Communication Settings and Cables</li> <li>3. Introduction to CX-Designer</li> <li>4. HMI Programming</li> <li>5. Program Simulation</li> </ol>
<b>Duration</b>	2 days (9am-3pm)
<b>No. of Participants per Batch</b>	Minimum of 2 and maximum of 8
<b>Training Fee per Participant</b>	PhP 6,500.00 + 12% VAT <i>(Inclusive of morning and afternoon snacks, lunch, handouts and training certificate)</i>
<b>Pre-requisite</b>	PLC 101

## HMI 201: SCADA Using CX-Supervisor

<b>Objective</b>	This course aims to equip the participants in PC-Based monitoring and controlling of PLC I/O's using CX-Supervisor
<b>Course Outline</b>	<ol style="list-style-type: none"> <li>1. Introduction to SCADA</li> <li>2. Introduction to CX-Supervisor Software</li> <li>3. System Configuration and Requirements</li> <li>4. Functions</li> <li>5. SCADA Programming</li> <li>6. Program Simulation</li> </ol>
<b>Duration</b>	2 days (9am-3pm)
<b>No. of Participants per Batch</b>	Minimum of 2 and maximum of 8
<b>Training Fee per Participant</b>	PhP 8,000.00 + 12% VAT <i>(Inclusive of morning and afternoon snacks, lunch, handouts and training certificate)</i>
<b>Pre-requisite</b>	PLC 101

# Training Schedule 2012

COURSE CODE	COURSE DESCRIPTION	SCHEDULE				
		MAR '12	APR '12	MAY '12	JUNE '12	JULY '12
<b>PLC 101</b>	Basic to Intermediate PLC Programming	1-2 22-23	10~11	8-9	5~6	
<b>PLC 201</b>	PLC Special I/O's Programming	6-7	12~13	10-11	7~8	
<b>PLC 301</b>	PLC-Based Motion Control Programming	8-9	24~25	15-16	14~15	
<b>PLC 401</b>	PLC Networking	13-14	--	17-18	19~20	
<b>HMI 101</b>	Basic HMI Programming	15-16	17~18	22-23	21~22	
<b>HMI 201</b>	Basic SCADA Using CX-Supervisor	20-21	26~27	29~30	26~27	

*Note:*

*Package trainings for corporate and individuals are also available at a discounted price. For more information, please drop an email at [racquel\\_r@ap.omron.com](mailto:racquel_r@ap.omron.com) or call us at (02) 811-2831~36*

# Registration

<i>Name</i>	<i>Designation</i>	<i>Course Code</i>	<i>Date</i>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
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## Company Details

Company Name : \_\_\_\_\_

Address : \_\_\_\_\_

Tel : \_\_\_\_\_ Fax: \_\_\_\_\_

Authorized by : \_\_\_\_\_

Department : \_\_\_\_\_ Designation : \_\_\_\_\_

Email : \_\_\_\_\_

\_\_\_\_\_

Signature (Authorized) Date

### 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 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.**

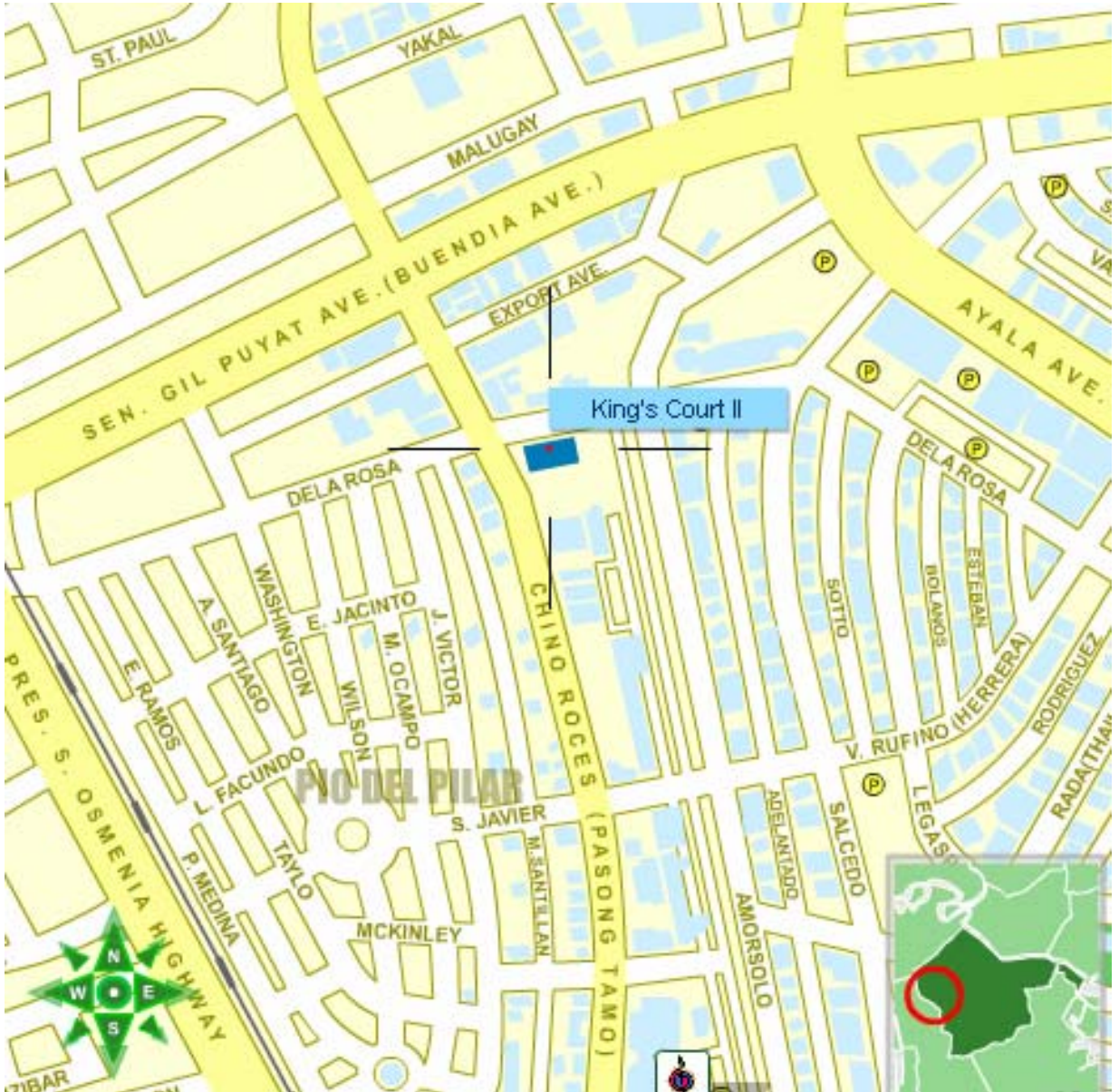
☎ (02) 811-2831~36 📠 : (02) 811-2583

✉ ph\_enquiry@ap.omron.com • racquel\_r@ap.omron.com

Look for Ms. Racquel Candaroma local 12

**OMRON**

# SITE MAP



## TRAINING VENUE:

### **OMRON ASIA PACIFIC PTE. LTD.**

Omron Training Center

2/F King's Court II Bldg., 2129 Don Chino Roces Ave.  
corner Dela Rosa St., Makati City, Philippines