



Factory Automation Training 2011

<p>Introduction to PLCs (2 day)</p> <ul style="list-style-type: none"> ● PLC system components ● PLC system configuration ● PLC wiring ● Memory matrix and addressing ● Ladder diagrams ● CX-Programmer Overview ● Program development ● Maintenance and troubleshooting ● Timers and counters ● General application instructions 	<p>Advanced PLC Programming (3 day)</p> <ul style="list-style-type: none"> ● Numbering systems ● Memory architecture and addressing ● Timer/counter review ● Instruction logic including general instructions, data shifting, data movement, data conversion, data comparison, arithmetic instructions, logic instructions, subroutines and sequencing. ● Introduction to networks ● Analog I/O
<p>Function Block Programming (1 day)</p> <ul style="list-style-type: none"> ● Introduction to Function Blocks ● Creating Function Blocks ● Ladder function blocks ● Structured text function blocks ● Using Omron's function block library 	<p>Touch Screen Programming (1/2 day)</p> <ul style="list-style-type: none"> ● Programmable terminal touch screen programming. ● Separate courses for NT or NS screens
<p>Vision System Basic Course (1 day)</p> <ul style="list-style-type: none"> ● What is vision? ● Selecting : lighting and lens ● Configuration of controller ● Measurement Tools ● Setting up scenes ● Setting up measurement windows and tolerance ● Application Examples 	<p>Vision System Advanced Course (1 day)</p> <ul style="list-style-type: none"> ● Position Compensation ● Output selection ● Wiring and I/O setup ● RS-232 communications ● Use of multiple cameras ● Compact flash card ● Application Examples
<p>Network Communications (2 days)</p> <ul style="list-style-type: none"> ● General Network Theory ● Ethernet & Routing Tables ● Controller Link and data links ● DeviceNet 	<p>Other Non-Scheduled Courses:</p> <ul style="list-style-type: none"> ● HMI including CX-Supervisor, CX-Lite, CX-OPC ● Servo control ● Variable Speed Drives ● General Products ● Temperature Control ● Safety Seminars

Who Should Attend:

- Engineers, electricians, technicians, maintenance staff, fitters and plant supervisors.
- Students attending the Advanced PLC programming course must have some basic knowledge of PLC programming. Knowledge of CX-Programmer is essential.

Prerequisites:

All attendees should be familiar with Windows operating systems and basic computer keyboard skills.



Omron Training Schedule 2011

Course	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Introduction to PLC's (2 days)												
Brisbane	-	24-25	-	-	26-27	-	-	-	-	6-7	-	-
Melbourne	-	21-22	-	-	16-17	-	-	15-16	-	-	7-8	-
Sydney	-	-	15-16	-	-	14-15	-	-	13-14	-	-	-
Advanced PLC Programming (3 days)												
Brisbane	-	-	16-18	-	-	22-24	-	-	21-23	-	23-25	-
Melbourne	-	-	9-11	-	-	13-15	-	-	-	19-21	-	-
Sydney	-	15-17	-	-	10-12	-	-	16-18	-	-	15-17	-
Touch Screen Programming (1/2 day)												
Brisbane	-	-	25	-	-	-	22	-	-	-	-	-
Melbourne	-	9	-	-	18	-	-	-	14	-	-	-
Sydney	-	-	-	5	-	-	12	-	-	11	-	-
Function Block Programming (1 day)												
Brisbane	-	-	-	22	-	10	-	12	-	-	-	-
Melbourne	-	-	-	20	-	-	20	-	-	-	-	-
Sydney	-	-	29	-	-	-	-	-	27	-	-	-
Network Communications (2 days)												
Brisbane	-	-	-	-	-	-	-	18-19	-	-	-	-
Melbourne	-	-	22-23	-	-	-	-	23-24	-	-	-	-
Sydney	-	-	-	26-27	-	-	-	-	-	25-26	-	-

To find out about vision system training dates – please contact Omron.
 For custom, non-scheduled and product specific courses please contact Omron.

Training Course Pricing:

Course	Price (excluding GST)
Introduction to PLCs	\$900.00
Advanced PLC Programming	\$1,350.00
Touch Screen Programming	\$250.00
Function Block Programming	\$450.00
Network Communications	\$900.00
Vision System 1 day courses	Pricing available upon request

NOTE: Omron reserve the right to cancel scheduled courses if the need arises.



Ph: 03 5278 8222 Fax: 03 5278 9761
 65 Douro Street, North Geelong VIC 3215
www.factorycontrols.com.au



Omron Training Course Benefits

Omron's proven hands-on training shortens the learning curve of those using industrial automation equipment for the first time, as well as for experienced technicians learning the advanced functionality of an upgraded system.

Our industry experienced instructors use a combination of proven teaching techniques and hands-on real world application exercises to deliver focused information during the course. Proficiency tests are conducted at the end of the course and an Omron certificate of training completion stands for the satisfactory demonstration of learned skills.

Benefits of Omron training courses:

Gain understanding, familiarity, knowledge and practical skills in automation.

These courses are designed around your needs and tailored to your skills - this will enable you to improve your productivity and performance.

Training Courses Create:

- Efficient production process
- Less downtime
- Greater return on automation investment
- Lower operating costs
- Value for money - high quality training at affordable prices

Customized and on-site PLC Courses:

On-site, custom and interstate courses may be arranged. Please don't hesitate to call and discuss the details of possible dates and course content.

PLC Course Format:

Every attendee receives personal attention as there are never more than six students per class.



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Course Registration Form

Phone	Mail ...	Fax ...	Enrol...							
... allow our customer service officers to assist you	... your booking form and payment to your nearest Omron office	... your course registration form to your nearest Omron Office	NOW To Reserve YOUR Place	<i>Each student receives:</i> <ul style="list-style-type: none"> ● Individual use of Training Module ● Full set of reference notes ● Certificate on course completion. ● Morning and afternoon tea 						
Organisation _____ Address _____ Suburb _____ Postcode _____				<i>A full lunch is catered for all courses one day and over.</i>						
Company Size Staff: <20 <input type="checkbox"/> 20-50 <input type="checkbox"/> 51-100 <input type="checkbox"/> 100+ <input type="checkbox"/> 500+ <input type="checkbox"/>										
Approving Manager _____ Position _____ Phone _____ Fax _____ E-mail _____				Discounts: Discounts may be given for group bookings.						
Student: Mr/Mrs/Ms/Miss _____ Position _____ Mr/Mrs/Ms/Miss _____ Position _____ Mr/Mrs/Ms/Miss _____ Position _____ Mr/Mrs/Ms/Miss _____ Position _____										
Please tick location: Melbourne <input type="checkbox"/> Sydney <input type="checkbox"/> Brisbane <input type="checkbox"/> Course Name: _____ Course Date: _____				Cancellations & Transfers: Any booking cancelled within 5 days of course commencement will incur a 50% cancellation fee. If a booking is cancelled within 24 hours of course commencement or if the student fails to attend, no refund will be provided. Transfers will be allowed subject to vacancies.						
How did you hear about Omron's training courses? Internet <input type="checkbox"/> Distributor <input type="checkbox"/>										
Payment Details:			Course Hours							
Order Number: Please accept as payment my order number: _____ Cheque: I wish to pay by cheque: * <input type="checkbox"/> Fee enclosed: \$ _____ Credit Card: Please charge my: Bankcard <input type="checkbox"/> Mastercard <input type="checkbox"/> Visa <input type="checkbox"/> Number _____ CSV _____ Cardholder Name: _____ Signature: _____ Expiry Date: _____ / ____ / ____				Full day courses <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Start</td> <td style="width: 33%;">Lunch</td> <td style="width: 33%;">Finish</td> </tr> <tr> <td>8:45am</td> <td>12:30pm</td> <td>4:30pm</td> </tr> </table> Half day courses Start 8:45am Finish 1:00pm+	Start	Lunch	Finish	8:45am	12:30pm	4:30pm
Start	Lunch	Finish								
8:45am	12:30pm	4:30pm								

- Cheques should be made payable to Omron Electronics Pty Ltd and posted to the office where training is to be conducted.
- Payment is to be made before the course commences and within 7 days of an invoice date.

