

Dengan hormat,

Kami ucapkan terima kasih atas perhatian Anda terhadap Training Otomatisasi OMRON. Kami, selaku Pusat Training Otomatisasi OMRON ingin menawarkan sebuah kerjasama dengan perusahaan Bapak/Ibu dalam memenuhi kebutuhan perusahaan terhadap Training FA (Factory Automation/Otomatisasi Pabrik). Dengan ini kami berikan penawaran kami seperti tercantum di bawah ini:  
Silakan hubungi Bagian Training di Tel : (62-21) 2949-7500/email : Training-ID@omron.com untuk informasi lebih lanjut.

Jadwal Training 2026									
Kode	Training	Durasi (hari)	Biaya untuk 1 Peserta (Rp.)	Apr	Mei	Jun	Jul	Agu	Sep
SVC000063P	PLC Basic_CP2E	2	2,900,000.00	14-15	5-6	9-10	7-8	11-12	8-9
SVC000064P	PLC Intermediate	2	2,900,000.00		7-8		9-10		10-11
SVC000070P	PLC/HMI Integration	2	3,600,000.00	16-17		11-12		13-14	
SVC000065P	PLC Special I/O	2	3,900,000.00			23-24			
SVC000069P	Network Solution	2	3,900,000.00				21-22		
SVC000087P	Maintenance Package	4	5,800,000.00	7-10		2-5		4-7	
SVC000073P	Sysmac PLC Basic	2	2,900,000.00	21-22	12-13	17-18	14-15	18-19	15-16
SVC000077P	Sysmac Motion Basic	2	3,900,000.00	23-24	19-20		16-17	20-21	17-18
SVC000082P	Vision Basic	2	3,700,000.00		21-22		23-24	26-27	22-23
RSVC00029P	Fixed Robots Basic	2	3,700,000.00			25-26	28-29		2-3
RSVC00031P	Cobot Basic	2	3,700,000.00	28-29			30-31		24-25

- **Harga diatas belum termasuk PPN 11%**
- Harga tersebut sudah termasuk : Pendaftaran, Materi Training, Sertifikat, Snack (1x/hari), Coffee Break (2x/hari), +Makan Siang (1x/hari).
- Peralatan yang di sediakan : 1 Komputer dan 1 Demo Kit digunakan untuk 2 peserta.
- Jadwal sewaktu-waktu dapat berubah, dan akan di konfirmasi sebelumnya.
- **Sertifikat dapat dikirimkan setelah kami terima bukti potong PPh23 yang asli.**
- **Tempat training : PT. OMRON ELECTRONICS – Ruang Training , Waktu training : 09.30 – 16.30 WIB.**
- **Khusus training Fixed Robot & Cobot Basic bertempat di ATC OMRON : Gedung IAB – PT. OMI, Kawasan EJIP, Cikarang**
- **Pembayaran harus sudah ditransfer minimal 1 (satu) minggu sebelum training, dengan nomor rekening sebagai berikut:**

**PT. OMRON ELECTRONICS**  
**MUFG BANK, LTD**  
**A/C No. 5100-146100 (IDR)**  
 MUFG Bank, Trinity Tower, Lt. 6-9  
 Jl. Rasuna Said Kav. C22 Blok IIB, Jakarta 12940

**Dan copy slip transfer dapat dikirim melalui alamat email: training-id@omron.com**

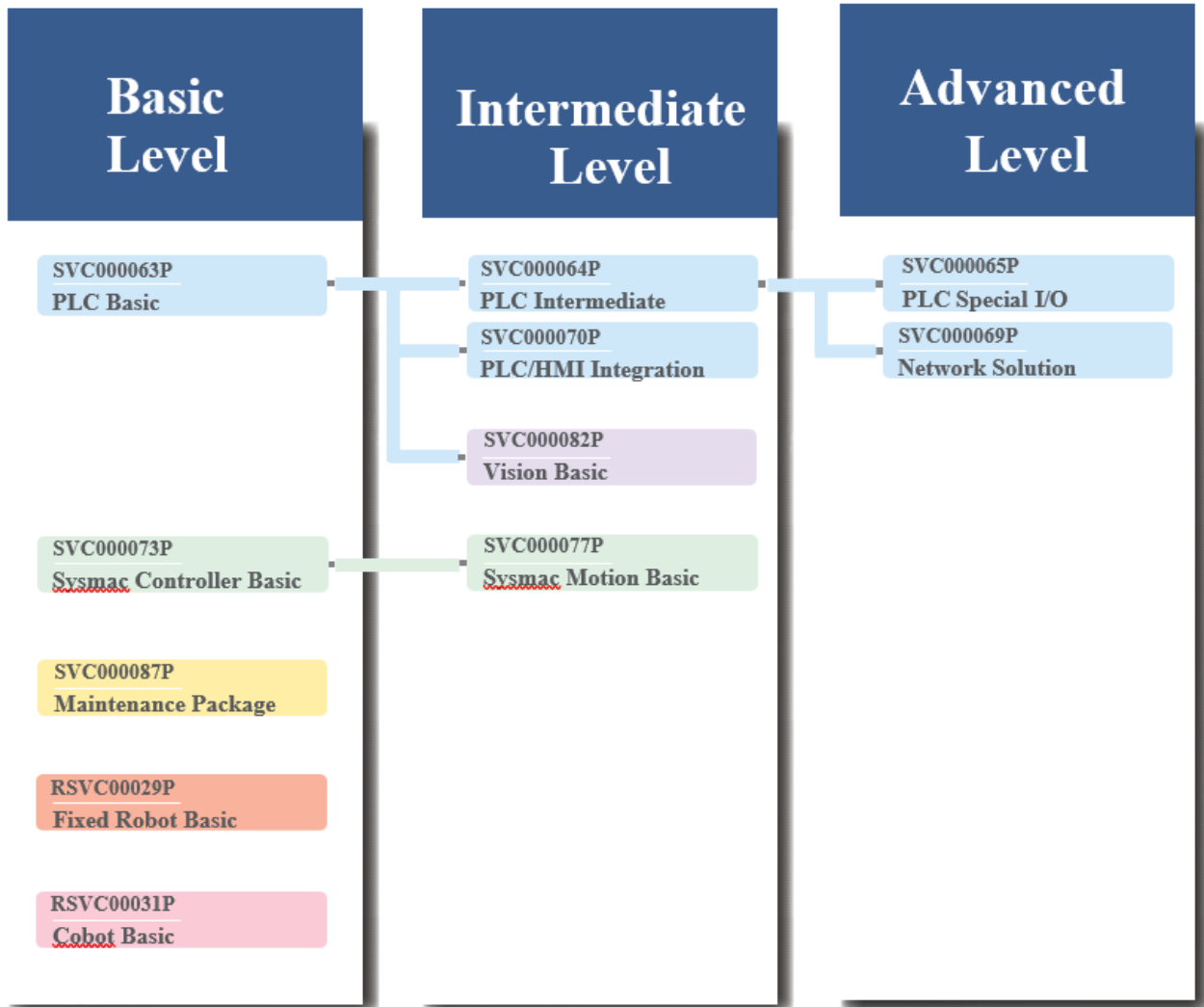
- **Cara Pendaftaran :**  
 Pendaftaran per email dianggap konfirm. Pembayaran harus sudah ditransfer minimal **1 (satu) minggu** sebelum training, dengan catatan sudah menerima surat konfirmasi & **email copy slip transfer** ke kantor kami, jika tidak pendaftaran kami anggap batal.  
**Invoice dan faktur pajak akan di terbitkan setelah bukti pembayaran kami terima.**  
 Jika terdapat pembatalan, paling lambat harus menginformasikan **7 hari** sebelum training.  
 Pembatalan setelahnya, akan dikenakan biaya pembatalan sebesar **limapuluh persen (50%)** dari biaya training.  
**Tidak ada pengembalian biaya untuk pembatalan training 1 (satu) hari sebelumnya.**
- **Kapasitas Minimum Kelas : 6 Orang**  
 Dibawah Kapasitas Minimum Kelas, training akan ditunda mengikuti jadwal selanjutnya atau sampai Kapasitas Minimum Kelas terpenuhi.
- **Tersedia paket pelatihan di Perusahaan/Onsite training untuk minimum peserta 6 orang atau 10 orang.**  
 Untuk informasi lebih lanjut dapat menghubungi kantor kami pada jam kerja: Senin-Jum'at, Jam 09.00-17.15 WIB

Semoga penawaran ini dapat memenuhi permintaan & menjadi pertimbangan Bapak/Ibu.  
Terima kasih atas perhatian & kerjasamanya.

## PT. OMRON ELECTRONICS

Menara Bidakara 2 Lt. 11 Unit 1,2 dan 3  
 Komplek Bidakara, Jl. Jend. Gatot Subroto Kav. 71 -73, Menteng Dalam, Tebet  
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 Tel: (62) 21-29497500 Fax: (62) 21-29497555

# F.A Training Courses



**PT. OMRON ELECTRONICS**

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**Kode: SVC000063P – PLC Basic CP1/CP2E**  
**Pengenalan Programmable Controller dan Dasar Pemrograman**

**Topik :**

- Pengenalan PLC
- I/O Connection & Wiring
- Sistem Konfigurasi CP Series
- Fungsi, Karakteristik, & Fitur CP Series
- Pengalamatan & Alokasi I/O CP Series
- Instruksi Dasar: LD, AND, OR
- Pengenalan Programming tools CX-One
- Operasi Dasar dari CX-Programmer:  
Pengaturan PLC, Membuat Project Baru, Menyimpan Project Baru, Upload/Download, Monitoring program
- Pemrograman Dasar: Timer, Counter, Set/Reset, Keep, Differentiate
- Contoh Aplikasi

**Prasyarat:**

Peserta diharapkan telah mengenal prinsip dasar elektronika, mengenal konsep rangkaian digital (Logika), dan sudah memiliki keterampilan dasar Komputer.

**Kode: SVC000064P – PLC Intermediate**  
**Pengenalan Modular Programmable Controller dan Pemrograman Intermediate**

**Topik :**

- Pengenalan Modular PLC
- Sistem Konfigurasi CS & CJ Series
- Fungsi, Karakteristik, & Fitur CS/CJ Series
- Memori PLC, Pengalamatan & Alokasi I/O CS/CJ Series
- Pengaturan I/O Table
- Pemrograman Intermediate: Move, Shift Register, Compare, Arithmetic Operation, Increment/Decrement
- Advance operation of CX-Programmer: Setup PLC, Memory Monitoring, Watch Window
- Contoh Aplikasi

**Prasyarat:**

Peserta diharapkan telah mengenal pengetahuan dasar PLC/ telah menyelesaikan pelatihan PLC Basic.

**Kode: SVC000070P – PLC/HMI Integration**  
**Pengenalan Human Machine Interface & Integrasi ke PLC**

**Topik :**

- Pengenalan Omron Programmable Terminal sebagai HMI
- Omron Product Line up
- Fungsi, Karakteristik, & Fitur NS Series

**Code: SVC000063P – PLC Basic CP1/CP2E**  
**Introduction to Programmable Controller and Basic Programming**

**Topics :**

- Introduction to PLC
- I/O Connection & Wiring
- System Configuration of CP Series
- Function, Characteristic, & Feature of CP Series
- Addressing & I/O Allocation of CP Series
- Basic Instruction: LD, AND, OR
- Introduction to Programming Tools CX-One
- Basic Operation of CX-Programmer:  
Setup PLC, Create New Project, Saving New Project, Upload/Download, Monitoring Program
- Basic Programming: Timer, Counter, Set/Reset, Keep, Differentiate
- Application Examples

**Precondition:**

Participants are expected to had basic principles of electronics and recognize digital circuit (Logic) also should had basic Computer skills.

**Code: SVC000064P – PLC Intermediate**  
**Introduction to Modular Programmable Controller and Intermediate Programming**

**Topics :**

- Introduction to Modular PLC
- System Configuration of CS & CJ Series
- Function, Characteristic, & Feature of CS/CJ Series
- PLC Memory, Addressing & I/O Allocation of CS/CJ Series
- Setup I/O Table
- Intermediate Programming: Move, Shift Register, Compare, Arithmetic Operation, Increment/Decrement
- Advance operation of CX-Programmer: Setup PLC, Memory Monitoring, Watch Window
- Application Examples

**Precondition:**

Participants are expected to had with PLC basic knowledge / completed the PLC Basic training.

**Code: SVC000070P – PLC/HMI Integration**  
**Introduction to Human Machine Interface & Integration to PLC**

**Topics :**

- Introduction to Omron Programmable Terminal as HMI
- Omron Product Line up
- Function, Characteristic, & Feature of NS Series

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- Penjelasan PLC Modular
- Pengaturan & Integrasi ke PLC
- Pengenalan alat Pemrograman: CX-Designer
- Merancang *Screen Basic* menggunakan CX-Designer
- Upload/Download *Screen*
- Contoh Aplikasi

**Prasyarat:**

Peserta harus memiliki pengetahuan dasar bagaimana mengoperasikan Komputer yang berbasis Windows dan telah menyelesaikan pelatihan PLC Basic.

**Kode: SVC000065P – PLC Special I/O**  
**Pengenalan & Aplikasi Spesial I/O****Topik :**

- Ulasan Omron PLC
- Omron Product Line up Special I/O (CP, CJ, CS Series)
- Fungsi, Karakteristik, & Fitur Special I/O
- Sistem Konfigurasi dari PLC menggunakan Special I/O
- Pengalamatan & alokasi memori dari Special I/O
- Pengaturan I/O Tabel untuk Special I/O
- Pemrograman dasar yang berkaitan dengan Special I/O
- Contoh Aplikasi

**Prasyarat:**

Peserta diharapkan telah mempunyai dasar pengetahuan Analog dan telah menyelesaikan pelatihan PLC Basic & PLC Intermediate.

**Kode: SVC000069P – Solusi Network**  
**Pengenalan & Aplikasi Solusi Network****Topik :**

- Ulasan Omron PLC
- Pengenalan system Komunikasi dan Jaringan: Device Level, Controller level, Information level
- Omron Product Line up Komunikasi dan Jaringan (CP, CJ, CS Series)
- Sistem Konfigurasi dari PLC menggunakan modul Networking
- Pengalamatan & alokasi memori dari modul Networking
- Sistem CompoNet
- Sistem DeviceNet
- Sistem Controller Link
- Sistem Ethernet

**Prasyarat:**

Peserta diharapkan telah mengenal pengetahuan dasar PLC dan telah menyelesaikan pelatihan PLC Basic & PLC Intermediate. Serta mempunyai pengetahuan dasar dari prinsip komunikasi jaringan dan komunikasi data.

- *Review of Modular PLC*
- *Setup & Integration to PLC*
- *Introduction to Programming tool: CX-Designer*
- *Basic screen designing using CX-Designer*
- *Screen Upload/Download*
- *Application Examples*

***Precondition:***

*Participants must have basic knowledge of how to operate a Windows-based Computer and completed the PLC Basic training.*

**Kode: SVC000065P – PLC Special I/O**  
***Introduction & Application of Special I/O******Topics :***

- *Review of Omron PLC*
- *Omron Product Line up of Special I/O (CP, CJ, CS Series)*
- *Function, Characteristic, & Feature of Special I/O*
- *System Configuration of PLC using Special I/O*
- *Addressing & Memory allocation of Special I/O*
- *Setup I/O Table for Special I/O*
- *Basic Programming related to Special I/O*
- *Application Examples*

***Precondition:***

*Participants are expected to had an analog knowledge base and completed the PLC Basic & PLC Intermediate training.*

**Kode: SVC000069P – Network Solution**  
***Introduction & Application of Network Solution******Topics :***

- *Review of Omron PLC*
- *Introduction to Communication & Networking system: Device Level, Controller level, Information level*
- *Omron Product Line up of Communication & Network (CP, CJ, CS series)*
- *System Configuration of PLC using Networking module*
- *Addressing & Memory allocation of Networking module*
- *CompoNet System*
- *DeviceNet System*
- *Controller Link System*
- *Ethernet System*

***Precondition:***

*Participants are expected to had with PLC basic knowledge and completed the PLC Basic & PLC Intermediate training. And have basic knowledge of the principles of network communication and data communication.*

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**Kode: SVC000087P – Maintenance Package**  
***Electric Maintenance Course***

**Topik :**

- Bekerja dengan aman pada system elektrik
- Diagnosa terputusnya deretan rangkaian
- Struktur Relay
- Contoh rangkaian menggunakan Relay
- Malfungsi rangkaian dan penyebabnya
- Struktur waktu
- Malfungsi waktu dan penyebabnya

**Prasyarat:**

Peserta diharapkan telah mengenal prinsip dasar elektronika, mengenal konsep rangkaian digital (Logika), dan sudah memiliki keterampilan dasar Komputer.

**Kode: SVC000087P – Maintenance Package**  
***Detection Device Maintenance Course***

**Topik :**

- Pengetahuan dasar mengenai alat deteksi
- Fitur dari Limit Switch
- Perawatan Sensor Proximity
- Perawatan Sensor Photoelectric
- Peralatan deteksi lainnya

**Prasyarat:**

Peserta diharapkan telah mengenal prinsip dasar elektronika, mengenal konsep rangkaian digital (Logika), dan sudah memiliki keterampilan dasar Komputer.

**Kode: SVC000087P – Maintenance Package**  
***PLC Maintenance Course***

**Topik :**

- Pengaturan perangkat keras
- Pengaturan perangkat lunak
- Pemrograman dasar ladder
- Pemeliharaan korektif
- Pelatihan troubleshooting
- Perbaikan program untuk debugging
- Operasi pemeriksaan (Operasi Tes)
- Manajemen program
- Pergantian dan pengembalian unit dan baterai
- Materi referensi

**Prasyarat:**

Peserta diharapkan telah mengenal prinsip dasar elektronika, mengenal konsep rangkaian digital (Logika), dan sudah memiliki keterampilan dasar Komputer.

**Code: SVC000087P – Maintenance Package**  
***Electric Maintenance Course***

**Topics :**

- *Safety When Working with Electricity*
- *Diagnosis of Disconnected Sequence Circuits*
- *Relay Structure*
- *Examples of Circuits That Use Relays*
- *Relay Malfunctions and Their Causes*
- *Timer Structure*
- *Timer Malfunctions and Their Causes*

**Precondition:**

*Participants are expected to had basic principles of electronics and recognize digital circuit (Logic) also should had basic Computer skills.*

**Code: SVC000087P – Maintenance Package**  
***Detection Device Maintenance Course***

**Topics :**

- *Basic Knowledge about Detection Devices*
- *Features of Limit Switches*
- *Proximity Sensor Maintenance*
- *Photoelectric Sensor Maintenance*
- *Other Detection Devices*

**Precondition:**

*Participants are expected to had basic principles of electronics and recognize digital circuit (Logic) also should had basic Computer skills.*

**Code: SVC000087P – Maintenance Package**  
***PLC Maintenance Course***

**Topics :**

- *Hardware Settings*
- *Software Settings*
- *Basic Knowledge about Ladder Programming*
- *Corrective Maintenance*
- *Troubleshooting Practice*
- *Editing Programs for Debugging*
- *Checking Operation (Test Operation)*
- *Program Management*
- *Replacing and Restoring Units and Batteries*
- *Reference Materials*

**Precondition:**

*Participants are expected to had basic principles of electronics and recognize digital circuit (Logic) also should had basic Computer skills.*

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**Kode: SVC000073P – Sysmac PLC Basic**  
**Pengenalan Machine Automation Controller Basic**

**Topik :**

- Pengenalan Sysmac
- Koneksi I/O & Pengkabelan
- Konfigurasi sistem seri NX1P
- Fungsi, Karakteristik, & Fitur seri NX1P
- Pengenalan Programming Tools Sysmac Studio
- Pengoperasian Dasar Sysmac Studio
- Pengaturan Sysmac, Buat Project Baru, Menyimpan Proyek Baru, Upload / Download, Monitoring Program
- Pengalamatan Variable & Alokasi I/O seri NX1P
- Petunjuk Dasar: LD, AND, OR
- Pemrograman Dasar: Timer, Counter, Set/Reset, Differentiate
- Cross reference, Output window, Watch window
- Pengecekan Kesalahan/ Pemecahan Masalah
- Latihan Aplikasi
- Pemrograman lanjut: Move, Compare, Increment/Decrement, dll
- Pengenalan Pemrograman Structured Text (ST)
- Pemrograman NX1P di ST
- Latihan Pemrograman ST
- Latihan Aplikasi HMI NB
- Fungsi, Karakteristik, & Fitur seri NB
- Pengenalan Alat Pemrograman: Setup NB Designer & Integrasi dengan Sysmac Controller

**Prasyarat:**

Peserta diharapkan telah mengenal prinsip dasar elektronika, mengenal konsep rangkaian digital (Logika), dan sudah memiliki keterampilan dasar Komputer.

**Kode: SVC000077P – Sysmac Motion Basic**  
**Pengenalan Sysmac Motion Basic**

**Topik :**

- Pengenalan secara umum Servomotor
- Komposisi Servo: Perangkat Keras, Perangkat Lunak & Pengkabelan
- Konfigurasi Sistem Servo
- Alat Pemrograman: Software Sysmac Studio
- Pengenalan Function Block (FB) untuk aplikasi Motion Control
- Pemrograman Gerak (MC\_Power, Home, Stop, Stop Zero, Jog)
- Troubleshooting Kesalahan dan Reset Ethercat dan Motion
- Latihan Aplikasi
- Pemrograman Gerak: (MC\_Velocity, Move Relative, Move Absolute)
- Konsep Gearing Elektronik, MC\_GearIn
- Tracing Data
- Simulasi 3D
- Latihan Aplikasi

**Code: SVC000073P – Sysmac PLC Basic**  
**Introduction to Machine Automation Controller Basic**

**Topics :**

- *Introduction to Sysmac*
- *I/O Connection & Wiring*
- *System configuration of NX1P series*
- *Function, Characteristic, & Feature of NX1P series*
- *Introduction to Programming Tools Sysmac Studio*
- *Basic Operation of Sysmac Studio*
- *Setup Sysmac, Create New Project, Saving New Project, Upload/Download, Monitoring Program*
- *Variable Addressing & I/O Allocation of NX1P series*
- *Basic Instruction: LD, AND, OR*
- *Basic Programming: Timer, Counter, Set/Reset, Differentiate*
- *Cross reference, Output window, Watch window*
- *Check Error/Troubleshooting Error*
- *Application Exercise Examples*
- *Intermediate Programming: Move, Compare, Increment/Decrement, etc*
- *Overview of ST Programming*
- *NX1P Programming in ST*
- *ST Programming Exercise*
- *Application Exercise Examples HMI NB*
- *Function, Characteristic, & Feature of NB series*
- *Introduction to Programming Tool: NB Designer Setup & Integration to Sysmac Controller*

**Precondition:**

*Participants are expected to had basic principles of electronics and recognize digital circuit (Logic) also should had basic Computer skills.*

**Code: SVC000077P – Sysmac Motion Basic**  
**Introduction to Sysmac Motion Basic**

**Topics :**

- *Introduction of Generally Servomotor*
- *Composition Servo: Hardware, Software & Wiring*
- *System Configuration of Servo*
- *Programming Tools : Sysmac Studio Software*
- *Introduction of FB Motion*
- *Motion Programming (MC\_Power, Home, Stop, Stop Zero, Jog)*
- *Troubleshooting Error and Reset Ethercat and Motion*
- *Application Exercise Examples*
- *Motion Programming : (MC\_Velocity, Move Relative, Move Absolute)*
- *Electronic Gearing Concept, MC\_GearIn*
- *Data Tracing*
- *3D Simulation*
- *Application Exercise Examples*

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**Prasyarat:**

Peserta diharapkan telah mengenal pengetahuan dasar Sysmac PLC Basic/ telah menyelesaikan pelatihan Sysmac PLC Basic.

**Kode : SVC000082P – Vision Basic**  
**Pengenalan Dasar Vision****Topik :**

- Pengenalan *Vision Sensor FQ2 Series*
- Nama Part dan Fungsi dari *FQ2-S4 Series*
- Pengenalan *Software dan Hardware Touch Finder*, Sensor Data Unit, Lensa, dan *Field of View*
- Konfigurasi dan Instalasi Vision Sensor FQ2-S4
- Jenis Lighting dan pengaplikasiannya
- Setting Communication
- Image Adjustment
- Part 1: Inspeksi Shape Search, Shape Search III, Position Compensation
- Part 2: Inspeksi OCR, Barcode dan 2D Code
- Part 3: Inspeksi Edge Width, Labeling, Color Data
- Pengenalan Vision Sensor Microscan
- Konfigurasi dan Instalasi Vision Sensor Microscan
- Pengenalan Software Microscan
- Inspeksi Barcode dan 2D Code menggunakan Vision Sensor Microscan

**Prasyarat:**

Peserta diharapkan telah mengenal prinsip dasar elektronika, mengenal konsep rangkaian digital (Logika), dan sudah memiliki keterampilan dasar Komputer.

**Kode: RSVC00029P – Fixed Robots Basic**  
**Pengenalan Dasar Fixed Robot****Topik :**

- Pengenalan *Fixed Robots*
- Gambaran produk-produk Fixed Robot
- Perangkat keras & Koneksi
- Alat Pemrograman: Software ACE
- Memulai dengan Robot
- Gambaran Bahasa V+
- Gambaran Produk Vision
- Gambaran Konsep Vision
- Gambaran Alat ACE Sight
- Pengenalan PackXpert
- Diskusi Aplikasi & Studi Kasus
- Metode Autostart

**Prasyarat:**

Peserta diharapkan telah memiliki pengetahuan tentang otomasi atau bekerja dalam kaitannya dengan sistem kontrol. Telah menyelesaikan pelatihan PLC Basic, dan dalam pelatihan

***Precondition:***

*Participants are expected to become familiar with Sysmac PLC basic knowledge / completed the Sysmac PLC Basic training.*

**Code: SVC000082P – Vision Basic**  
**Introduction to Vision Basic****Topics :**

- *Introduction Vision Sensor FQ2 Series*
- *Part Name and Function FQ2-S4 Series*
- *Introduction Software and Hardware Touch Finder, Sensor Data Unit, Lens, and Field of View*
- *Configuration and Installation Vision Sensor FQ2-S4*
- *Lighting and Applications*
- *Setting Communication*
- *Image Adjustment*
- *Part 1: Shape Search Inspection, Shape Search III Inspection, Position Compensation*
- *Part 2: Inspection OCR, Barcode and 2D Code*
- *Part 3: Inspection Edge Width, Labeling, Color Data*
- *Introduction Vision Sensor Microscan*
- *Configuration and Installation Vision Sensor Microscan*
- *Introduction Software Microscan*
- *Barcode dan 2D Code Inspection using Vision Sensor Microscan*

***Precondition:***

*Participants are expected to had basic principles of electronics and recognize digital circuit (Logic) also should had basic Computer skills.*

**Code: RSVC00029P – Fixed Robots Basic**  
**Introduction to Fixed Robots Basic****Topics :**

- *Introduction of Fixed Robots*
- *Product Line up Overview of Fixed Robots*
- *Hardware and Connections*
- *Programming Tools : ACE Software*
- *Getting Started with a Robot*
- *V+ Language Overview*
- *Vision Product Overview*
- *Vision Concepts Overview*
- *ACE Sight Tool Overview*
- *PackXpert Introduction*
- *Application Discussion and Case Studies*
- *Autostart Methods*

***Precondition:***

*Participants are expected to had knowledge about automation or work in relation to the control system. Have completed the PLC Basic training and in this training participants already*

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ini peserta sudah memiliki dasar atau terlatih dalam pemrograman teknik Robotika dalam Bahasa C.

**Kode: RSVC00031P – Collaborative Robot Basic**  
**Pengenalan Dasar Collaborative Robot**

**Topik :**

- Pengenalan Collaborative Robot
- Gambaran produk-produk Collaborative Robot
- Start-up (Perangkat keras dan Koneksi)
- Pemrograman Operasi dasar-dasar
- Pemrograman menggunakan flow chart (TM-FLOW)
- Cara mengambil dengan Griper
- Kalibrasi dan Node Vision
- Menggunakan Kamera untuk Mengatur Gerakan dari titik yang satu ke titik yang lain
- Lainnya (Digital I/O, Variable, etc)

**Prasyarat:**

Peserta diharapkan telah memiliki pengetahuan tentang otomasi atau bekerja dalam kaitannya dengan sistem kontrol. Telah menyelesaikan pelatihan PLC Basic, dan dalam pelatihan ini peserta sudah memiliki dasar atau terlatih dalam pemrograman teknik Robotika dalam Bahasa C.

*have a basis or are trained in programming Robotics techniques in Language C.*

**Code: RSVC00031P – Collaborative Robot Basic**  
**Introduction to Collaborative Robot Basic**

**Topics :**

- *Introduction of Collaborative Robot*
- *Product Line up Overview of Collaborative Robot*
- *Start-up (Hardware and Connections)*
- *Programming of Fundamental Operations*
- *Programming using a flow chart (TM-FLOW)*
- *How to pick up grippers*
- *Calibration and Vision Nodes*
- *Using Camera to Set Point & Point Movements*
- *Others (Digital I/O, Variable, etc)*

**Precondition:**

*Participants are expected to had knowledge about automation or work in relation to the control system. Have completed the PLC Basic training and in this training participants already have a basis or are trained in programming Robotics techniques in Language C.*

*Peserta :*

*Operator, Teknisi, Supervisor yang terlibat dalam design, troubleshooting & pengoperasian PLC pada Otomatisasi Industri*

**PT. OMRON ELECTRONICS**

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