

1) PLC BASIC (Q-PLC Programming Course.(GX-Developer or GX-Works2))

Target Trainee	Suitable for beginner or little experience in PLC. Trainee need to have WIN operation experience.
Training material	Q-PLC programming training text
Training Kit	Q-PLC training kit, Window base PC

Day		Contents
Day 1	9.00 to 16.00	1. Basic of sequence PLC CPU 2. Operation of GX Developer or GX Works 3. Devices and parameter in PLC CPU 4. Basic command-1: PLC, etc 5. Programming exercise
Day 2	9.00 to 16.00	6. Basic command-2: MOV, Comparing, Calculation 7. Programming exercise 8. Functions of QCPU: Test function, online writing, commends etc) 9. Application of special function module: A/D module and D/A module

2) PLC BASIC (FX-Series or L-Series)

Target Trainee	Suitable for beginner or little experience in PLC. Trainee need to have WIN operation experience.
Training material	FX or L -PLC programming training text
Training Kit	FX-PLC / L-PLC training kit, Window base PC

Day		Contents
Day 1	9.00 to 16.00	1. Basic of sequence PLC CPU 2. Operation of GX Developer or GX Works 3. Devices and parameter in PLC CPU 4. Basic command-1: PLC, etc 5. Programming exercise
Day 2	9.00 to 16.00	6. Basic command-2: MOV, Comparing, Calculation 7. Programming exercise 8. Functions of F or L CPU: Test function, online writing, commends etc) 9. Application of special function module: A/D module and D/A module

3) MELSECNET (Q-Melsecnet/H course)

Target Trainee	Trainee should have completed Q-PLC programming course or equivalent experience. Sound knowledge on WINDOW operation.
Training material	Net/H training manual
Training Kit	Q-PLC + Net/H training kit

Day		Contents
Day 1	9.30 to 12.30	1. Feature of Q net/H 2. Explanation of parameter, setting procedure
	13.30 to 17.00	3. Exercise I: Cyclic transmission
Day 2	9.30 to 12.30	4. Exercise II: Transient transmission
	13.30 to 17.00	5. Exercise III: Routing function 6. Exercise IV: Remote I/O network

4) SERVO POSITIONING (Positioning course: QD77MS)

Target Trainee	Trainee should have completed Q-PLC programming course or equivalent experience also with experience in servo system. Sound knowledge on WINDOW operation.
Training material	QD77MS training manuals
Training Kit	Q-PLC + QD77MS training kits

Day		Contents
Day 1	9.30 to 17.00	1. Basic of positioning and feature of QD77MS 2. Explanation of data (parameter, HPR, positioning) 3. Data setting and test run function
	9.30 to 17.00	4. Explanation of sequence program 5. Exercise on positioning.

5) CC-LINK (Q CC-Link Course)

Target Trainee	Trainee should have completed Q-PLC programming course or equivalent experience. Sound knowledge on WINDOW operation.
Training material	Q CC-Link training text
Training Kit	Q-PLC training kit + CC-Link, Window base PC

Day		Contents
Day 1	9.30 to 12.30	1. Feature of CC-Link, Remote Net mode 2. Master and local communication
	13.30 to 17.00	3. Remote I/O Net 4. Inverter communication via CC-link

6) SERVO Qmotion CPU (Q-Motion Course)

Target Trainee	Trainee should have completed Q-PLC programming course or equivalent experience. Sound knowledge on WINDOW operation.
Training material	A/Q-Motion training text
Training Kit	A/Q-motion (A171SH/Q172CPU) training kits, Window base PC

Day		Contents
Day 1	9.30 to 12.30	1. Function of A-Motion controller, system configuration 2. Positioning parameter, servo parameter
	13.30 to 17.00	3. 2 axis linear interpolation, circular interpolation, continue interpolation
day 2	9.30 to 12.30	4. Virtual mode programming
	13.30 to 17.00	5. Synchronous operation (roller, ball screw, cam etc)

7) HMI - Touchscreen (GOT2000 Course)

Target Trainee	Trainee should have completed Q-PLC programming course or equivalent experience. Sound knowledge on WINDOW operation.
Training material	GOT1000 Training manuals
Training Kit	Using simulation Q-PLC + GOT1000 for trainees exercise. 1 unit of GOT1000 unit will use for demo

Day		Contents
Day 1	9.30 to 12.30	1. Function and feature of GOT1000, system configuration 2. Operation of GT-Designer
	13.30 to 17.00	3. Explanation on drawing menu and drawing exercise 4. Screen making, monitoring
Day 2	9.30 to 12.30	5. Exercise 1: touch key, lamp, data input, data display etc.
	13.30 to 17.00	6. Exercise 2: comment, alarm list, panel meter, graph etc. 7. Other Functions

8) INVERTER (A700 inverter course)

Target Trainee	For person like to understand fundamental of inverter, maintenance personnel.
Training material	A700 user manual
Training Kit	FR-A700 inverter training kit

Day		Contents
Day 1	9.30 to 13.00	1. Basic of inverter. 2. Explanation of parameter
	13.00 to 17.00	3. I/O interfacing, selection of speed etc 4. Operation of training kit 5. Troubleshooting, maintenance.

9) SERVO COURSE (MR-J4 series servo course)

Target Trainee	For person like to understand fundamental of servo system, maintenance personnel.
Training material	MR-J4 user manual
Training Kit	MR-J4 servo training kit

Day		Contents
Day 1	9.30 to 13.00	1. Basic of servo, parameter 2. Positioning control
	13.00 to 17.00	3. I/O interfacing 4. Operation of training kit 5. Troubleshooting, maintenance.

10) NETWORKING - (CC-Link IE course)

Target Trainee	Trainee should have completed Q-PLC programming course or equivalent experience. Sound knowledge on WINDOW operation.
Training material	Net/H training manual
Training Kit	Q-PLC + CC-Link IE training kit

Day		Contents
Day 1	9.30 to 12.30	1. Feature of Cclink I/E 2. Explanation of parameter, setting procedure
	13.30 to 17.00	3. Exercise I: mapping networking
Day 2	9.30 to 12.30	4. Exercise II: Setup parameter & Wiring Networking
	13.30 to 17.00	5. Exercise III: Programming Sample 6. Exercise IV: Trouble shoot analysis