

TRAINING CALENDAR: YEAR 2022-23

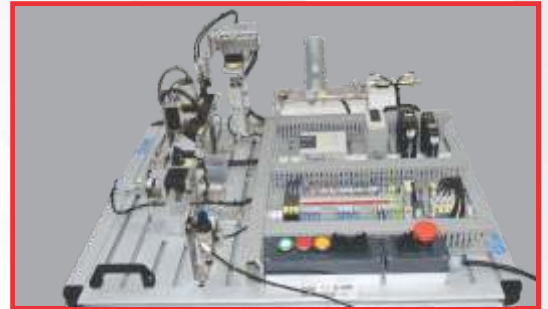


FA TRAINING

SUPPORTING YOUR BUSINESS WITH SUPERIOR TECHNICAL EXPERTISE

COMPREHENSIVE TRAINING FOR THE MOST COMPLEX REQUIREMENTS

Mitsubishi Electric India offers the most comprehensive training programmes for its vast collection of factory automation products, specific to every customer's requirement. The dedicated team of training personnel conduct top-end training support in the realms of product, domain, application and integration. The training centre too imparts regular training basis a yearly calendar, as well as customised training – both at the centre and on-site. With world-class training equipment and kits, hardware, software and highly-qualified staff, the centre delivers in-depth, effective and flexible training to meet the customer's requirements.

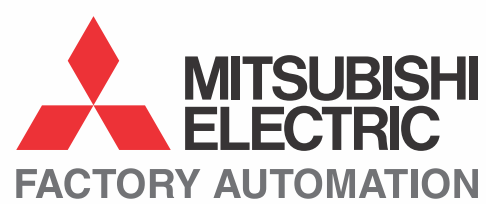


TECHNOLOGY THAT DELIGHTS

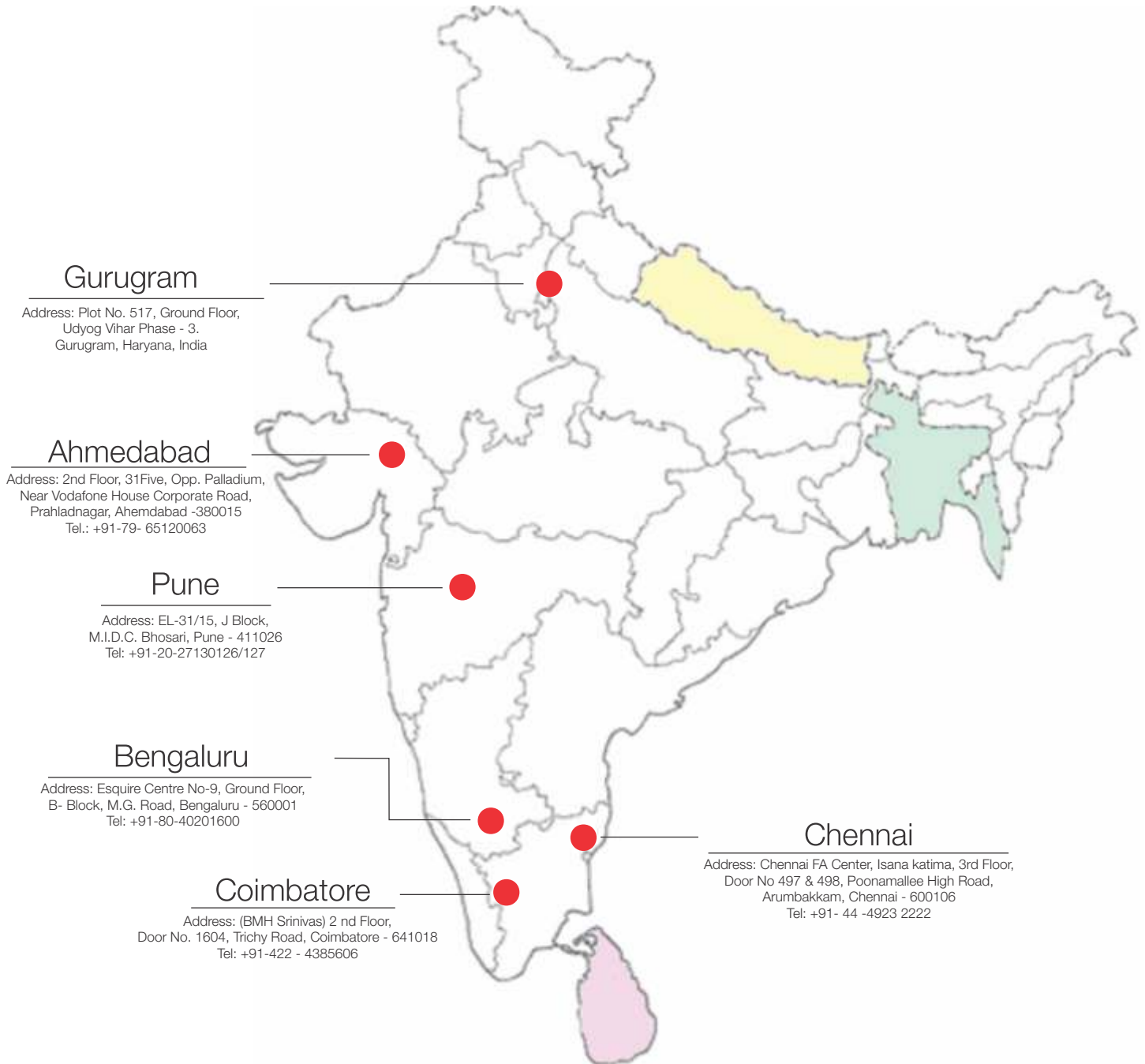
We believe that customer satisfaction is a reward in itself. That's why we treat each assignment as a personal responsibility, delivering unconditional, prompt and efficient service anywhere, anytime. Armed with a large inventory of spare parts and committed to a tradition of quality service, we assure back-end support to our customers throughout the product life cycle. To ensure this, we have built a PAN-India network of service centres that enable access and easy availability.

COURSE OBJECTIVE

The course encompasses product knowledge, maintenance, troubleshooting, application development that ensures enhanced productivity, reduced downtime, optimisation of processes and achieves the set targets based on customer requirements.



FA Centers



Mitsubishi Electric India Pvt. Ltd.

Factory Automation and Industrial Division

ICC-Devi Gaurav Technology Park, Unit No. 402, Fourth Floor, Survey No. 191-192 (P),
Opp. Vallabh Nagar Bus Depot, Pune – 411018, Maharashtra, India.

FA Product Regular Training Courses : FY 2022-23

Following training courses are regularly offered from our all training Centres mentioned in previous section.

Sr. No.	Training Module	Days	Brief Courses
A. PRODUCT TRAINING			
1	Q PLC	2	Includes QnUDEH/QnUDV PLC hardware. Basic & advance programming using GX Works2. Timer, Counter, Applied instructions. Program booting using SD card. Analog interface.
2	GOT 2000	2	Includes GOT 2000 Series HMI hardware, Screen Designing using programming software GT Designer3. Alarms, Graphs, Comments, Recipe. Ladder monitoring & editing. Program diagnosis & backup using GOT. GOT mobile function, VNC Server.
3	Micro PLC iQ-F	2	Introduction to iQ-F series PLC. I/O addressing. Programming using GXWorks3. Applied instructions, timer, counter, Analog interface. Structured programming. Function block & library.
4	Modular PLC iQ-R	2	Introduction to iQ-R series PLC. Difference between Q & iQ-R series. Compatibility in existing line. Lib. Functions, applied instructions, data labels, Analog interface, Maintenance & security functions
5	Basic FA Network CC-Link	1	Basics of CC-Link Network, different types of devices in network, Network addressing, & connections. Master to remote & CPU to CPU interface. Network troubleshooting & CC-Link module hardware test.
6	Advance FA Network CC-Link IE	2	Basics of CC-Link IE network. CC-Link IE Field network components, topology. Network communication - Remote IO station & PLC to PLC configuration. CC-link IE control Network, Network diagnosis & troubleshooting
7	iQ-R SAFETY	1	Introduction of iQR series PLC, Outline of safety programmable controller, Features of safety CPU, iQR safety I/O Features, Hardware wiring of safety PLC and remote I/O, CC-Link IE Field Network Safety, System configuration, Creating new project for safety program
8	Servo Basic I	2	Basics of servo systems, servo motor structures, Mitsubishi pulse type servo - MR JE. Servo parameter setting using MR configurator2. Built in positioning using FX5U PLC. Homing, positioning with Modbus protocol, troubleshooting
9	Servo Basic II	2	Mitsubishi's servo controller's range. SSCNET III/H based controller & amplifier - MR J4. Positioning using FX5-40SSC/QD77MS/RD77MS, M Code, simple motion configuration, Synchronous control
10	CCLink IE TSN	1	CC-Link IE TSN Network Overview, CC-Link IE Field network topology & System Configuration. Cyclic communication - Remote IO station & PLC to PLC Communication. CC-link IE TSN Network diagnosis & troubleshooting
11	Advance Servo (Q Motion)	2	SSCNET based servo system MRJ4. Motion CPU: Q17nD/DS, SFC programming, VF/VR instructions. Motion control with virtual mode. Mechanical editor: Servo motor virtual axis
12	AC Drives	2	Basics of Inverter, Mitsubishi FR800 series Inverter. V/F control, JOG, parameter setting. Multi-speed operation, auto tuning. Inverter Control using PLC. Troubleshooting
13	SCADA - MC Works64	2	MC Works 64 Architecture & features. MX OPC server. Graph Works, Alarm server & logger. Trend server & logger. Unified data manager. Scripting & Security server, Report Worx.
14	SCADA - Genesis64	2	Overview of ICONICS Suite, Difference between Basic & Advanced SCADA, Data connectivity options, Graphworx64, Alarm & Notifications, Historian, Report Worx, Security Functions
15	Robot-I	2	Basics of robot (F/FR). Device configuration & wiring for external I/O. Robot operation & teaching. Programming with RT toolbox 3 & TB operation. Robot applications & maintenance/ troubleshooting
16	Robot-II	2	Simulation Function, Spline Function, Tool teaching, Additional Axis function, Networking (CC-Link , CC-Link IE Field basic)
17	Cobot	1	Overview, Device configuration & wiring for external I/O, Safety Extension unit details, Cobot operation & teaching. Overview of RT Visual Box Software, Robot applications & maintenance/ troubleshooting

FA Product Regular Training Courses : FY 2022-23

Sr. No.	Training Module	Days	Brief Courses
B. APPLICATION TRAINING			
1	Packaging Machine HFS	2	Basics of Packaging System, Introduction to Horizontal packing machine. FA Hardware selection criteria. Application development. Jog & home operation for feeder, Conveyor, sealing, filling axis. Synchronous control setting, Troubleshooting.
2	FA BASIC	1	Introduction to Electro-Pneumatics, Different components- valves, cylinder, feeders, sensors. Control Components.FX3S PLC, I/O assignment, SFC programming, devices in STL, different modes of Operation - step mode execution, single cycle, continuous execution
3	Packaging Machine VFFS	2	Basics of packing system. Vertical FFS Packing machine- hardware. Configuration of VFD through CC-Link IE field. Configuration of EMS through CC-Link. Settings of Temperature controller instrument. FA Hardware selection criteria. Application development
4	GOT 21 CFR	1	Introduction to 21 CFR Compliance, Security Management Function, Alarm/Event Configuration, Recipe Function, Report screen development, report print Setting, Printer Setting, Data List Display, Data Transfer tool Operation, Audit trail.
5	R2R	2	Introduction of R2R application, Features of special R2R drive, concept of winding and unwinder application
6	INV CRN	1	FR-A800-CRN inverter embedded functions such as “swinging suppression control”, “shortest time torque start up function”, as well as “load-based speed control.
7	PROCESS AUTOMATION	2	Introduction to Process Automation, Basics of Process control, Instruments used in Process control, PA kit, Different process variable controlling in Process Automation, PID, Screen design in Scada, Flow monitor design, Control screen design
8	POKA YOKE, ANDON	2	Introduction of POKA YOKE System, Benefits of POKA YOKE system, Hardware connection configuration, Introduction of ASLINK network, Different sensors & devices of ASLink network.
9	PackML	2	Introduction to packaging system, Packaging application, Feeder axis, Conveying, Sealing, Filling, Sensors, System configuration, GOT screen design for PackML, Troubleshooting.
10	Energy Saving using FR-F800/E800	1	Overview of Mitsubishi Inverter Series, Features & Specifications of E800/F800 inverter, Energy saving using IPM motor, Energy saving with Difference controls. Practical demo on Kit
11	Servo Based Robotic Arm	2	Overview of Mitsubishi Range of servo Controllers, SSCNET Based Servo Controllers, Basic operation of arm assembly using JOG, Home & Position. Application hardware overview, System configuration, Application development.
12	Robot Screw Tightening Machine	2	Overview of Mitsubishi Robots, Application overview, System Configuration, Screw tightening application Development, Vision Interface & programming, Spline Function, Glue Dispenser application development.

FA Product Regular Training Courses : FY 2022-23

C. e-F@CTORY TRAINING			
1	e-Factory MES	1	Introduction to MES, Hardware & software specification, Configuration, Creating SQL data base, Using MES configuration tool.
2	e-Factory Web Server	1	Introduction to Webserver function, System configuration, creating system web page, Creating User web page.
3	e-Factory-Starter Package (Vibration analysis)	1	Overview of e-F@ctory Starter Package, System configuration, Scree transition diagram, Vibration analysis, MT method, Time Series data collection.
4	e-Factory-Starter Package (Operation monitoring)	1	Management Solutions, Dashboard, Histogram, Operational Status Monitor, Maintenance Solutions, improvement Solutions.
5	e-Factory - IoT Gateway	1	Overview of MEGATSU-IIOT Gateway, Features & Specifications, IoT Edge Gateway, Web Based Portal for Configuration, IoT Cloud platform, Remote control, Alert on Screen
D. CONVERSION TRAINING			
1	J2S to J4 Conversion	1	Introduction to J2S & J4 Amplifier, Parameter details of J2S & J4, Wiring details of conversion kit. Conversion Procedure
2	J3 to J4 Conversion	1	Introduction to J3 & J4 Amplifier, Parameter details of J3 & J4, Wiring details of conversion kit. Conversion Procedure.
3	A to Q Conversion	1	Introduction to A & Q CPU, Comparison, System configuration, Software requirement, conversion techniques
4	700 to 800 Inverter Conversion	1	Comparison of 700 & 800 Series Inverter, Parameter backup & Restore Procedure, Conversion Procedure
5	CC-Link IEF to TSN Conversion	1	Overview of CC-link IE Field & TSN Network, Comparison, CC-link IE TSN Remote IO use in CC-link IE field, Network Conversion procedure

FA Product Customized Training Courses: FY 2022-23

Sr. No.	Training Module	Brief Courses
1	FX Networking	Serial Communication Boards/ Adapters, 1:N & N:N communications, Inverter Network with FX3U / FX3G PLCs, CC-Link for FX PLC : Master & Slave Blocks, Ethernet Module : FX3U-ENET. Modbus communication using FX3U-232 /485 ADP-MB, FX5 Communication options (CC Link IE Field Basic), FX5U-232-BD/ADP, FX5U-422-BD/ADP
2	Redundant CPU	Q12PRH / Q25PRH Redundancy CPUs, Programming & Parameter Setting for redundancy. Memory copy function, CPU replacement.
3	L series PLC	L Series PLC hardware, Range of CPUs, I/O modules, Analog Modules, Networking modules, etc., I/O addressing, Programming using GxWorks2.
4	L Basic Positioning	L series Built-in Positioning, High speed inputs/outputs, Encoder Interfacing, Interfacing with pulse input type servo amplifiers, Homing, Jogging, and positioning, practice
5	L Advance Positioning	LD75MH and LD77MS modules, SSCNET based Servo controllers, Simple Motion control, etc.
6	iQ-R PLC Monozukuri	iQ-R SIL2 Solution, iQ-R Safety Solution, iQ Monozukuri Solution, GX Works 3 FB Programming.
7	iQ-F PLC Simple Motion	Simple Motion Module setting (FX5-40 SSC/FX5-80SSC), CAM design, CAM types (Ratio CAM, Coordinate CAM), Synchronous encoder interface, Command generation action setting using GX Works3.
8	RD78G Motion Module	Simple Motion Module setting (RD78G), MR-J5-G/MR-JET-G CC Link IE TSN Servo, Hardware features, basic operations like JOG, Home, PTP Control, CAM design, Synchronous encoder interface, Command generation action setting using GX Works3.
9	iQ-R Motion	iQ-R Motion CPU, Parameter Settings, Multiple CPU sharing, SFC Programming, Operations: Jogging, Homing, Positioning etc., Synchronous Functions- Input Axis, Output axis, CAM Data, Speed change ratio, Gear Ratio, auxiliary parameters etc.
10	MelsecNet/H Network	MelsecNet/H Network range, specifications, feature. Optical loop module, coaxial bus & configuration. PLC-PLC & PLC-remote I/O communication. Link Devices & RAS function. Intelligent module at remote station. Troubleshooting
11	IPC	Introduction to IPC, Installation guidelines, SCADA / PA Kit Interface
12	GOC	Includes GOC series hardware, PLC programming, HMI Screen Design /Various Objects, Data logging, History trends, Recipes & Alarms, third party connectivity, etc.
13	Structured programming	Introduction to label programming, Understanding of local label and global label, Structure programming languages (Ladder, FBD, ST, SFC etc.), Creation of function blocks, Structured data types, User library, Import, Export, symbolic information and memory configuration.
14	Pocket GOT	Introduction to Pocket GOT, Features of Pocket GOT Demo
15	Data Center (Application)	Introduction to Data Center, Various protocols for Data Center (BACnet, CANopen, Modbus, CC link etc) , Case study and integration with existing kits (ex. PA Kit, Andon Kit etc)

Note:

1. Apart from above list, wide range of customized training programs is available as per the installation at customer end.
2. Customized training programs can be arranged at customer site or at nearby FA centres of Mitsubishi Electric India.

FA Product Customized Training Courses: FY 2022-23

Sr. No.	Training Module	Brief Courses
16	Nexgenie 1000 PLC	Nexgenie 1000 PLC hardware, Base & Expansion Units, Memory Organization, DI/DO and Analog I/O, Connection & Configuration, Programming using CoDeSys, Troubleshooting & Maintenance issues, etc.
17	Nexgenie 2000 PLC	Nexgenie 2000PLUS PLC hardware, Base & Expansion Modules, Memory Organization, DI/DO and Analog I/O, Connection & Configuration, Programming using CoDeSys, Modbus Network, Communication FBs, Interface with MS-HMI, basic programming of HMI, Troubleshooting & Maintenance issues, etc.
18	PLC Maintenance	Basics of PLC, hardware configuration, IO Module Installation & Wiring. PLC Addressing. Program upload/download & program backup. Troubleshooting IO error. Replacement of IO Module.
19	Servo Maintenance	Mitsubishi Servo Range, Power & Control wiring. Configuration. Start-up procedure. Periodic Maintenance. (Battery for absolute servo). Alarm number & brief description. Servo Motor Maintenance. Troubleshooting.
20	VFD Maintenance	Mitsubishi AC Drive Range, Induction motor selection. Power & Control wiring. Configuration. Start-up procedure. Parameter setting. Alarm troubleshooting & brief alarm description. Yearly & Monthly maintenance. Drive fans/filters.
21	Robot Maintenance	Mitsubishi Robot Range, Reading/writing backup, Settings of Origin data, Greasing of Robot arm, Battery replacement in Robot arm and controller, Power and control wiring, etc., Troubleshooting.
22	Q to iQ-R Conversion	Conversion of Q Series to iQ-R Series, Base Rack, CPU module, IO, analog Module etc.
23	QD75M/MH to QD77MS Conversion	QD75M/MH features, QD77MS features, MR-J2/J3 to J4 Conversion, Parameter settings, Conversion process

Note:

1. Apart from above list, wide range of customized training programs is available as per the installation at customer end.
2. Customized training programs can be arranged at customer site or at nearby FA centres of Mitsubishi Electric India.

FA Product Regular Training Calendar: FY 2022-23

Training Module	Day	Pune	Gurugram	Bangalore	Chennai	Ahmedabad	Coimbatore
Q PLC	2 Days	04-05 Apr'22	09-10 May'22	06-07 Jun'22	02-03 May'22	01-02 Jun'22	-
		03-04 Oct'22	02-03 Jan'23	10-11 Nov'22	12-13 Dec'22	06-07 Oct'22	-
GOT 2000	2 Days	11-12 Apr'22	04-05 Apr'22	04-05-July'22	11-12 Aug'22	11-12 Apr'22	27-28 July'22
		06-07 Oct'22	10-11 Oct'22	23-24 Jan'23	06-07 Feb'23	07-08 Nov'22	30-31 Jan'23
Micro PLC (iQ-F)	2 Days	18-19 Apr'22	20-21 Jun'22	02-03 May'22	04-05 Aug'22	04-05 Apr'22	25-26 Apr'22
		17-18 Oct'22	06-07 Oct'22	03-04 Nov'22	01-02 Feb'23	02-03 Nov'22	26-27 Dec'22
Modular PLC (iQ-R)	2 Days	09-10 May'22	11-12 July'22	04-05 Apr'22	07-08 Apr'22	03-04 May'22	27-28 Jun'22
		07-08 Nov'22	03-04 Nov'22	05-06 Dec'22	16-17 Jan'23	28-29 Nov'22	27-28 Feb'23
Basic FA Network	1 Day	02 May'22	11-May'22	08 Jun'22	04 May'22	03 Jun'22	-
Advance FA Network	2 Days	16-17 May'22	04-05 July'22	20-21 Jun'22	11-12 Apr'22	26-27 May'22	-
		28-29 Nov'22	05-06 Dec'22	12-13 Dec'22	23-24 Jan'23	16-17 Jan'23	-
iQR-Safety	1 Day	8 July'22	06 Jun'22	18 Apr'22	02 Sep'22	11 May'22	-
		10 Mar'23	18 Nov'22	01 Feb'23	02 Mar'23	02 Jan'23	-
Servo Basic-I	2 Days	25-26 Apr'22	18-19 Apr'22	16-17 May'22	02-03 Jun'22	13-14 Jun'22	22-23 Aug'22
		03-04 Nov'22	17-18 Oct'22	28-29 Nov'22	13-14 Feb'23	10-11 Nov'22	16-17 Mar'23
Servo Basic-II	2 Days	30-31 May'22	08-09 Aug'22	18-19 July'22	01-02 Aug'22	04-05 July'22	17-18 Oct'22
		01-02 Dec'22	19-20 Dec'22	16-17 Jan'23	06-07 Mar'23	26-27 Dec'22	-
CC Link IE TSN	2 Days	10 Jun'22	01 Aug'22	31 Oct'22	04 July'22	17 Jun'22	28 Nov'22
		06 Jan'23	30 Jan'23	08 Feb'23	18 Nov'22	16 Dec'22	-
Advance Servo (Q Motion)	2 Days	02-03 Jun'22	19-20 Sep'22	16-17 Aug'22	08-09 Sep'22	16-17 Aug'22	-
		23-24 Jan'23	06-07 Feb'23	27-28 Feb'23	29-30 Dec'22	02-03 Feb'23	-
AC Drive	2 Days	05-06 May'22	25-26 Apr'22	01-02 Aug'22	09-10 May'22	18-19 Apr'22	23-24 May'22
		13-14 Oct'22	06-07 Mar'23	02-03 Jan'23	03-04 Nov'22	20-21 Dec'22	-
SCADA – MCWorks64	2 Days	11-12 July'22	02-03 May'22	30-31 May'22	15-16 Sep'22	27-28 July'22	-
		19-20 Dec'22	20-21 Mar'23	10-11 Oct'22	10-11 Nov'22	05-06 Jan'23	-
SCADA – Genesis64	2 Days	01-02 Aug'22	25-26 July'22	05-06 Sep'22	09-10 Jun'22	24-25 Aug'22	26-27 Sep'22
		02-03 Feb'23	20-21 Feb'23	13-14 Mar'23	02-03 Jan'23	02-03 Mar'23	-
Robot-I	2 Days	06-07 Jun'22	23-24 May'22	19-20 Sep'22	20-21 Jun'22	08-09 Aug'22	-
		12-13 Dec'22	10-11 Nov'22	20-21 Feb'23	19-20 Dec'22	07-08 Feb'23	-
Robot-II	2 Days	04-05 July'22	18-19 July'22	20-21 Oct'22	14-15 July'22	07-08 Sep'22	-
		19-20 Jan'22	16-17 Jan'23	01-02 Mar'23	20-21 Feb'23	14-15 Mar'23	-
Cobot	1 Day	12 Aug'22	27 May'22	-	-	-	-
		10 Feb'23	20 Jan'23	-	-	-	-
HFS Packaging	2 Days	20-21 Jun'22	12-13 Sep'22	09-10 May'22	10-11 Oct'22	22-23 Sep'22	-
		08-09 Dec'22	24-25 Nov'22	14-15 Nov'22	-	-	-
FA BASIC	2 Days	29 July'22	13 Jun'22	11-12 Apr'22	-	-	-
VFFS Packaging	2 Days	18-19 Aug'22	21-22 July'22	-	-	-	-
		02-03 Mar'23	09-10 Jan'23	-	-	-	-

FA Product Regular Training Calendar: FY 2022-23

Training Module	Days	Pune	Gurugram	Bangalore	Chennai	Ahmedabad	Coimbatore
GOT 21 CFR	1 Day	29 Apr'22	27 Jun'22	06 July'22	18 Aug'22	12 May'22	-
		11 Nov'22	31 Oct'22	25 Jan'23	24 Mar'23	23 Jan'23	-
R2R	2 Days	-	05-06 May'22	-	-	23-24 Jun'22	-
		-	26-27 Dec'22	-	-	20-21 Mar'23	-
INV Crane	1 Day	23 Sep'22	05 Aug'22	-	-	-	-
		24 Feb'23	10 Feb'23	-	-	-	-
Process Automation	2 Days	18-19 July'22	11-12 Apr'22	-	-	01-02 Sep'22	-
		26-27 Dec'22	16-17 Mar'23	-	-	13-14 Feb'23	-
PokaYoke & Andon	2 Days	19-20 May'22	28-29 Apr'22	13-14 Jun'22	05-06 Sep'22	12-13 July'22	-
		24-25 Nov'22	23-24 Jan'23	27-28 Mar'23	05-06 Jan'23	21-22 Feb'23	-
PackML	2 Days	09-10 Jan'23	01-02 Dec'22	08-09 Aug'22	22-23 Mar'23	11-12 Oct'22	-
Energy saving using FR-F800/E800	1 day	-	26 Sep'22	-	-	-	-
Servo Based Robotic Arm	2 Days	-	12-13 Dec'22	-	-	-	-
Robot Screw Tightening Machine	2 Days	-	05-06 Sep'22	-	-	-	-
e-factory (MES)	1 Day	01 July'22	22 Apr'22	27 Sep'22	11 July'22	07 July'22	29 Nov'22
e-factory (Web Server)	1 Day	13 Apr'22	15 July'22	27 Jun'22	07 Dec'22	28 Apr'22	30 Nov'22
e-factory Starter (Vibration Analysis)	1 Day	22 Aug'22	15 Nov'22	26 Sep'22	-	-	-
e-factory Starter (Operation Monitor)	1 Day	19 Oct'22	22 Mar'23	2 Dec'22	-	-	-
e-factory (IoT Gateway)	1 Day	05 Aug'22	30 Sep'22	22 Aug'22	11 Jan'23	02 Dec'22	-
J2S to J4 Conv	1 Day	22 Apr'22	24 Jun'22	07 Oct'22	24 Nov'22	05 Aug'22	-
J3 to J4 Conv	1 Day	27 Feb'23	29 Aug'22	10 Mar'23	25 Nov'22	14 Oct'22	-
A to Q Conv	1 Day	16 Sep'22	10 Jun'22	09 Dec'22	03 Feb'23	29 Aug'22	-
700 to 800 INV Conv	1 Day	06 Mar'23	24 Feb'23	21 Nov'22	12 Jan'23	12 Dec'22	-
CC-link IEF to TSN Conv	1 Day	19 Sep'22	14 Oct'22	13 Feb'23	14 Oct'22	30 Jan'23	-

Channel Partner Regular Training Calendar: FY 2022-23

Training Module	Day	Pune	Gurugram	Bangalore	Chennai	Ahmedabad	Coimbatore
Micro PLC (iQ-F)	2 Days	25-26 May'22	16-17 Jun'22	26-27 Apr'22	19-20 May'22	25-26 Apr'22	25-26 July'22
		14-15 Nov'22	13-14 Feb'23	06-07 Feb'23	23-24 Feb'23	06-07 Dec'22	-
GOT 2000	2 days	25-26 July'22	25-26 Aug'22	29-30 Jun'22	21-22 Apr'22	18-19 May'22	27-28 Apr'22
		21-22 Nov'22	29-30 Dec'22	07-08 Nov'22	19-20 Jan'23	10-11 Jan'23	-
Modular PLC (iQ-R)	2 Days	13-14 Jun'22	28-29 July'22	26-27 May'22	19-20 Apr'22	16-17 May'22	25-26 May'22
		05-06 Dec'22	20-21 Oct'22	30-31 Mar'23	13-14 Mar'23	21-22 Nov'22	-
Servo	3 Days	27-29 Jun'22	18-20 May'22	27-29 July'22	21-23 Sep'22	07-09 Jun'22	28-30 Sep'22
		02-04 Jan'23	14-16 Dec'22	21-23 Dec'22	27-29 Mar'23	08-10 Mar'23	-
AC Drive	2 Days	08-09 Aug'22	17-18 Aug'22	05-06 May'22	13-14 Jun'22	19-20 July'22	29-30 Jun'22
		22-23 Dec'22	27-28 Feb'23	17-18 Oct'22	05-06 Dec'22	16-17 Feb'23	-
SCADA – MC Works64/32	2 Days	05-06 Sep'22	08-09 Sep'22	29-30 Aug'22	21-22 July'22	02-03 Aug'22	-
SCADA – Genesis64	2 Days	16-17 Jan'23	09-10 Mar'23	09-10 Jan'23	20-21 Oct'22	16-17 Nov'22	29-30 Dec'22
Robot-I	2 Days	12-13 Sep'22	13-14 Apr'22	24-25 Nov'22	14-15 Nov'22	27-28 Sep'22	24-25 Aug'22
Robot-II	2 Days	06-07 Feb'23	29-30 Nov'22	29-30 Dec'22	22-23 Dec'22	18-19 Oct'22	-
CC Link IE TSN	2 Days	29-30 Aug'22	21-22 Nov'22	30-31 Jan'23	31 Oct'22	14-15 Sep'22	09-10 Feb'23
Cobot	1 Day	24 Mar'23	16 Sep'22	-	-	-	-

LVS Product Regular Training Courses: FY 2022-23

Sr. No.	Training Module	Days	Brief Course
1	Basic of LVS	2	Basic Electrical Terminologies, Introduction of Low Voltage Product and Types of Switchgear, Application of Low Voltage Switchgear, Switchgear Demo.
2	Industrial Electrical System	1	Basic Overview of Electrical Power System (Generation, Transmission & Distribution), LV Switchgear Terminologies, Protection Systems (Overload, Short Circuit, Ground Fault, Earth Leakage and Voltage Based Protection), Overview of Electrical Distribution Panels (Types, Application and Switchgear selection).
3	Multifunction Meter with Communication	1	Use of Multifunction Meter in Distribution System (1 ϕ + 3 ϕ), Meter Configuration, Meter Communication, Meter Trouble Shooting.
4	Communication & Smart Switchgear	1	Introduction of Communication with smart switchgear, Hardware demonstration of EMS with Meter, ECO Monitor, ECO webserver, Introduction of GOC 43 & MDU Breaker.
5	ACB Preventive Maintenance	1	Basic information of ACB, Operation of ACB parts, Accessories testing, Release testing, PM activity of ACB.

LVS Product Customised Training Courses: FY 2022-23

Sr. No.	Training Module	Days	Brief Course
1	LVS Hands on training	1	Basic information of Switchgear, Switchgear parts, Accessories function, Fitment Practice of accessories, Understanding the protection release function and setting, Trouble shooting of low voltage Switchgear.
2	Electrical Safety Awareness	1	Electrical hazards, Fire cases, why safety required, Self-Protection Equipment's.
3	Accessories Selection of Switchgear	1	Switchgear terminology, Switchgear selection, Release setting, brief introduction & selection of MEI switchgear accessories

LVS Product Training Calendar: FY 2022-23

Training Module	Days	Pune	Gurgaon	Bangalore	Chennai	Ahmedabad
Basic of LVS	2 Days	07-08 Apr'22	12-13 May'22	09-10 Jun'22	18-19 Jul'22	22-23 Aug'22
Industrial Electrical System	1 Day	18 May'22	15 Jun'22	08 Jul'22	18 Apr'22	12 Sep'22
Multifunction Meter with Communication	1 Day	17 Jun'22	14 Jul'22	19 Aug'22	19 Sep'22	20 May'22
		07 Mar'23	17 Feb'23	13 Jan'23	21 Dec'22	17 Oct'22
Communication & Smart Switchgear	1 Day	21 Jul'22	12 Aug'22	23 May'22	15 Jun'22	06 Jul'22
		23 Nov'22	12 Oct'22	07 Sep'22	08 Aug'22	15 Nov'22
ACB Preventive Maintenance	1 Day	12 Oct'22	17 Nov'22	16 Dec'22	10 Jan'23	24 Feb'23
LVS Hands on training	1 Day	10 Oct'22	07 Dec'22	22 Feb'23	10 Mar'23	15 Apr'22
Electrical Safety Awareness	1 Day	10 Aug'22	14 Sep'22	19 Oct'22	09 Nov'22	05 Dec'22
Switchgear & Accessories Selection	1 Day	08 Sep'22	20 Apr'22	13 Apr'22	06 May'22	20 Jun'22
		13 Feb'23	06 Jan'23	17 Nov'22	10 Feb'23	17 Mar'23

Regular Training Courses at ATC: FY 2022-23

Sr. No.	Training Module	Days	Type of Course	Brief Courses
1	Micro PLC: MELSEC iQ-F	2	Basic	Introduction to iQ-F series PLC. I/O addressing. Programming using GXWorks3. Applied instructions, timer, counter, Analog interface.
2	Modular PLC: MELSEC IQ-R	2	Basic	Introduction to iQ-R series PLC. Difference between Q & iQ-R series. Compatibility in existing line. Lib. Functions, applied instructions, data labels, Analog interface.
3	HMI: GOT 2000	1	Basic	Includes GOT 2000 Series HMI hardware, Screen Designing using programming software GT Designer. Alarms, Graphs, Comments, Recipe. Ladder monitoring & editing. Program diagnosis & backup using GOT.
4	VFD A800	1	Basic	Basics of Inverter, Mitsubishi 800 series Inverter. V/F control, jogging, parameter setting. Multi-speed operation, auto tuning.
5	LVS	1	Basic	Basics of Electricity, LVS Terminologies, Overview of Electrical Power Distribution System, Basics of Motor Starter, Briefing of LVS products used in Motor starter kit, Starting Methods of Motor, Overview of Motor Starter kit.
6	SCADA: MC WORKS64	2	Basic	MC Works Architecture & features. Product Selection. MX OPC server. Graph Works, Alarm server & logger. Trend server, Redundancy in MC Works64
7	Robot Basics	2	Basic	Basics of robot. Device configuration & wiring for external I/O. Robot operation & teaching. Programming with RT toolbox & teaching pendant. Robot applications.

Regular Training Schedule at ATC: FY 2022-23

Training Module	Duration	MIET	SECE	IIATCA	AKGEC	MRIIRS	IT, NU	CVR
Micro PLC: MELSEC iQ-F	2 Days	21-22 Apr'22	22-23 Apr'22	21-22 Apr'22	18-19 May'22	25-26 Aug'22	28-29 Jun'22	6-7 Apr'22
		17-18 Nov'22	7-8 Jul'22	17-18 Oct'22	23-24 Aug'22	27-28 Mar'23	6-7 Jan'23	27-28 Oct'22
Modular PLC: MELSEC IQ-R	2 Days	12-13 May'22	27-28 May'22	28-29 Jul'22	19-20 Apr'22	28-29 Apr'22	30 Jun'22-1Jul'22	5-6 May'22
		15-16 Dec'22	26-27 Aug'22	23-24 Feb'23	6-7 Sep'22	22-23 Sep'22	3-4 Feb'23	29-30 Nov'22
GOT2000	1 Day	6-Jun'22	9-Apr'22	27-May'22	10-May'22	27-May'22	2-Jul'22	1-Jun'22
		12-Jan'23	25-Feb'23	25-Nov'22	14-Jun'22	4-Nov'22	4-Mar'23	16-Dec'22
VFD A800	1 Day	14-Jul'22	24-Sep'22	24-Jun'22	11-Oct'22	24-Jun'22	1-Oct'22	28-Jun'22
		4-Aug'22	25-Mar'23	20-Dec'22	10-Nov'22	23-Dec'22	3-Sep'22	30-Dec'22
LVS	1 Day	25-Aug'22	23-Jul'22	30-Sep'22	12-Jul'22	29-Jul'22	2-Apr'22	27-Jul'22
		8-Sep'22	12-Nov'22	11-Jan'23	13-Dec'22	3-Feb'23	6-Aug'22	30-Jan'23
SCADA: MC WORKS64	2 Day	29-30 Sep'22	13-14 May'22	25-26 Aug'22	28-29 Dec'22	4-5 Aug'22	26-27 May'22	25-26 Aug'22
		16-17 Feb'23	23-24 Dec'22	2-3 Mar'23	8-9 Feb'23	19-20 Jan'23	4-5 Nov'22	27-28 Feb'23
Robot Basics	2 Day	13-14 Oct'22	25-26 Nov'22	6-7 Sep'22	19-20 Jan'23	13-14 Oct'22	30-31 Dec'22	28-29 Sep'22
		16-17 Mar'23	27-28 Jan'23	28-29 Mar'23	22-23 Feb'23	23-24 Feb'23	20-21 Jan'23	27-28 Mar'23

Mitsubishi Electric - FA Authorized Training Centers (ATC)

- | | |
|--|--|
| <p>1 Ghaziabad ATC Centre
 Ajay Kumar Garg Engineering College
 (AKGEC Center)
 27th km Milestone, Delhi-Meerut
 Express highway ,Ghaziabad,
 Uttar Pradesh – 201009, India
 Email:- sharmamahesh@akgec.ac.in
 Contact Person: Mr. Mahesh Sharma</p> | <p>2 Faridabad ATC Centre
 Manav Rachna International Institute of Research
 and Studies (MRIIRS Center)
 Sector-43, Surajkund- Badkal Road, Faridabad,
 Haryana,India- -121003
 Email:- anitakhosla.fet@mriu.edu.in
 Contact Person: Dr. Anita Khosla</p> |
| <p>3 Ahmedabad ATC Centre
 Institute of Technology, Nirma University
 (IT,NU Center)
 Sarkhej-Gandhinagar Highway,
 Ahmedabad, Gujarat, India-382481
 Email:- alpesh.patel@nirmauni.ac.in
 Contact Person : Prof. Alpesh Patel</p> | <p>4 Kolkata ATC Centre
 International Institute For Advanced Training On
 Control & Automation (IIATCA Center)
 FE 68, Sec-03 Salt Lake, Kolkata,
 West Bengal, India-700106
 Email:- iiatca.trg@gmail.com
 Contact Person: Prof. Silpi Santra</p> |
| <p>5 Jammu ATC Centre
 Model Institute of Engineering & Technology
 (MIET Center)
 Kot Bhalwal, Jammu, Jammu And kashmir,
 India- 181122
 Email:- satyendra.ece@mietjammu.in
 Contact Person : Dr. Satyendra Kumar Singh</p> | <p>6 Hyderabad ATC Centre
 CVR College of Engineering
 (CVR Center)
 Vastunagar, Mangalpalli (V), Ibrahimpatan,
 R. R. DIST. Hyderabad, Telangana, India-501510
 Email:- mitsubishiatc@cvr.ac.in
 Contact Person : Asst. Prof. Deepika Kalluri</p> |
| <p>7 Coimbatore ATC Centre
 Sri Eshwar College of Engineering & Technology
 (SECE Center)
 Kondampatti [Post], Vadasithur (VIA), Coimbatore,
 Tamil Nadu 641202
 Email:- kannan_narasimhan@sece.ac.in
 Contact Person: Dr. Kannan Narasimha</p> | |

Training Request Form

 MITSUBISHI ELECTRIC FACTORY AUTOMATION		Mitsubishi Electric India Pvt. Ltd.	
Title: Training Request Form		Form No.: Doc. No.- FAC/FF/003 Rev No.: A00 Rev Date.- 01.04.2021	
To be filled by training requester / applicant			
Applicant Details :			
Name of Applicant			
Designation			
Department			
Organisation			
Contact Details	Mobile :	Email:	
Details for requested course:			
Training Courses			
Training Type	Regular as per MEI Training Calendar () / Customised ()		
Expected Schedule			
Preferred Location	Pune Centre () / Gurgaon Centre () / Bangalore Centre () / Chennai Centre () Ahmedabad Centre () or Customer Site (.....) Specify the location if Customer site is selected		
Total No. of Participants			
Participants from the Same Organisation / Department			
Sr. No.	Name of Participant	Designation	Department
1			
2			
3			
4			
5			
Mitsubishi FA Product Used :			
Payment details :			
I declare that the above mention information is correct & participants fulfil the pre-requisites for the mentioned courses.			
Place			
Date		Signature of Applicant	
For Internal Used only at Mitsubishi Electric India Pvt. Ltd.			
Further communication / Action required : Quotation () / PO Received () / Date Confirmation () / Site Visit require ()		Planned Dates	Allotted Engineer / Faculty for training
Request: Kindly fill this form & send either hardcopy to nearby training centre or to below address or Email scan copy.			
Contact Address : FAC, Mitsubishi Electric India Pvt. Ltd. EL-31/15, J Block, MIDC Bhosari, Pune (Maharashtra), India – 411 026 Tel : +91-020-27130126/127 Fax : +91-020-27102100			
Email : MEI-FAID-FATraining@asia.meap.com			