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1. Mitsubishi Electric:FA Authorised Training Centers

Regular training is arranged at following centres.

Ghaziabad ATC Centre
Ajay Kumar Garg Engineering College
Authorised Training Centre of
Mitsubishi Electric India's
Factory Automation & Industrial Division,
27th km Milestone, Delhi-Meerut
Expy ,Ghaziabad, Uttar Pradesh – 201009, India
Email:- sharmamahesh@akgec.ac.in
Contact Person: Mr. Mahesh Sharma

Ahmedabad ATC Centre
Institute of Technology, Nirma University
Authorised Training Centre of
Mitsubishi Electric India's
Factory Automation & Industrial Division,
Sarkhej-Gandhinagar Highway, Ahmedabad-
382481, Gujarat, India
Email: - alpesh.patel@nirmauni.ac.in
Contact Person: prof. Alpesh Patel

Jammu ATC Centre
Model Institute of Engineering & Technology
Authorised Training Centre of
Mitsubishi Electric India's
Factory Automation & Industrial Division,
Kot Bhalwal, Jammu- 181122, Jammu And
Kashmir, India
Email: - satyendra.ece@mietjammu.in
Contact Person: Dr. Satyendra Kumar Singh

Coimbatore ATC Centre
Sri Eshwar College of Engineering & Technology
Authorised Training Centre of
Mitsubishi Electric India's
Factory Automation & Industrial Division,
Kondampatti [Post], Vadasithur (VIA),
Coimbatore-641202, Tamil Nadu
Email: - kannan_narasimhan@sece.ac.in
Contact Person: Kannan Narasimha

Faridabad ATC Centre
**Manav Rachna International Institute
of Research and Studies**
Authorised Training Centre of
Mitsubishi Electric India's
Factory Automation & Industrial Division,
Sector-43, Suraj Kund- Badkal Road, Faridabad-
121003, Haryana, India
Email:- leenag.fet@mriu.edu.in
Contact Person: Dr Leena.G

Kolkata ATC Centre
**International Institute for Advanced Training On
Control & Automation**
Authorised Training Centre of
Mitsubishi Electric India's
Factory Automation & Industrial Division,
FE 68, Sec-03 Salt Lake, Kolkata -700106, West
Bengal ,India
Email:- iiatca.trg@gmail.com
Contact Person: prof. Silpi Santra

Hyderabad ATC Centre
CVR College of Engineering
Authorised Training Centre of
Mitsubishi Electric India's
Factory Automation & Industrial Division,
Vastunagar, Mangalpalli (V), Ibrahimpatan ,R. R.
DIST. Hyderabad – 501510, Telangana, India
Email: - mitsubishiatc@cvr.ac.in
Contact Person: prof. Deepika Kalluri

Madhya Pradesh ATC Centre
Shri Vaishnav Institute of Technology and Science
Authorised Training Centre of
Mitsubishi Electric India's
Factory Automation & Industrial Division,
Gram Baroli, Indore Sanwer Roakd Dist. Indore
M.P, 453111
Email: - lalitbhanwrela@svvv.edu.in
Contact Person: Lalit Bhanwrela

Odisha ATC Centre

C.V. Raman Global University

Authorised Training Centre of

Mitsubishi Electric India's

Factory Automation & Industrial Division,

Bidyanagar, Mahura, Janla

Bhubaneswar-752054, Odisha

Email: - achirangshu.patra@cgu-odisha.ac.in

Contact Person: Achirangshu Patra

2. List of Regular Training Courses

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

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	iQF PLC Advance	1	Basic	Understanding of Analog Interface : FX5U-4AD-ADP, 4DA-ADP), Understanding of Memory card use, Program boot function, Understanding of multiple program creations & program types, Understanding of Global , Local & Module label), Creation of Function Block .
5	iQR PLC Advance	1	Basic	Understanding of Analog module features (Scale, Shift, Warning, Wave, Clip, module change, History, Understanding of datalogging function, Memory dump function, Understanding of Security function (Block Password, file password, Security key)
6	VFD A800	1	Basic	Basics of Inverter, Mitsubishi 800 series Inverter. V/F control, jogging, parameter setting. Multi-speed operation, auto tuning.
7	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.
8	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
9	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.
10	Servo Basics	2	Basic	Overview of Mitsubishi Range of servo Controllers, SSCNET Based Servo Controller: RD77MS, SSCNET Based Servo Amplifier: MR-J4-B , RD77MS, Expansion Function, Synchronous Control Function, CAM Design, Synchronous Parameters in Details, Troubleshooting & monitoring

Training Schedule at ATC: FY2024-25

ATC Educational Activity Calendar: year 2024-2025

Training Module	Duration	No of Trainings	MIET	MRIIRS	CV Raman	AKGEC	IT.NU	SVVV	IIATCA	CVR	SECE
Micro PLC: MELSEC iQ-F	2 Days	2	8-9 April	19-20 Apr	9-10 April	16-17 May	19-20 July	2-3 Jan'25	3-4 April	15-16 April	14-15 Mar'25
			22-23 April	13-14 Sep	22-23 Aug	23-24 Aug	20-21 Dec	5-6 Feb'25	23-24 Oct	11-12 Sept	12-13 Sept
Modular PLC: MELSEC iQ-R	2 Days	2	6-7 May	3-4 May	20-21 Mar	18-19 Apr	2-3 Aug	9-10 Jan'25	10-11 July	3-4 May	18-19 April
			20-21 May	18-19 Oct	5-6 Sept	5-6 Sept	4 Jan'25	8-9 July	5-6 Feb'25	17-18 Oct	10-11 Oct
GOT2000	1 Day	2	3-4 June	6 June	26 April	11 May	26 July	17 Jan'25	9 May	16 May	27 Sept
			24-25 June	16 Nov	20 Sept	18 June	10 Jan'25	5 Aug	6 Nov	2 Nov	29 April
iQF PLC Advance	1 Day	1	9-10 Sept	27 Nov	23 May	29 April	26 July	5 April	29 April	31 May	13 July
			23-24 sept	28 Mar'25	18 Oct	18 Oct	9 Aug	29 July	28 Oct	15 Nov	8 Nov
IQR PLC Advance	1 Day	1	12-13 Aug	28 June	9 May	7 June	27 July	3 May	29 July	11 June	16 Aug
			29-30 Aug	29 Jan'25	4 Oct	20 Sept	10 Aug	10 July	28 Feb'25	29 Nov	24 May
VFD A800	1 Day	2	7-8 Oct	14 July	13 June	10 Oct	6 Sept	13 Jan'25	5 June	21 June	10 May
			21-22 Oct	5 Dec	8 Nov	21 Nov	1 Feb'25	29 Aug	5 Dec	13 Dec	28 Feb'25
LVS	1 Day	2	4-5 Nov	10 Aug	28 June	10 July	13 Sept	30 Jan'25	12 Sept	5 July	31 Jan'25
			18-19 Nov	6 Nov	22 Nov	11 Dec	15 Feb	17 Feb'25	9 Jan'25	10 Jan'24	12 April
SCADA: MC WORKS64	2 Day	2	2-3 Dec	18-19 Jan'25	11-12 July	20 Dec	20-21 Sept	10-11 Feb'25	7-8 Aug	18-19 July	13-14 June
			16-17 Dec	15-16 Mar'25	5-6 Dec	8 Feb'25	26-27 Feb'25	3-4 Oct	5-6 Mar'25	6-7 Feb'25	21-22 Nov
Robot Basics	2 Day	2	10-11 Feb'25	6 Feb'25	25-26 July	17 Jan'25	4-5 Oct	15-16 Jan'25	26-27 Sept	8-9 Aug	18-19 July
			24-25 Feb'25	19 July	12-13 Dec	22 Feb'25	29 Mar'25	2-3 Sept	26-27 Mar'25	6-7 Mar'25	24-25 Oct
Servo Basics	2 Day	2	10-11 Mar'25	14-15 Feb'25	8-9 Aug	19 July	6-7 Dec	29-30 April	19-20 June	29-30 Aug	22-23 Aug
			24-25 Mar'25	23-24 Aug	26-27 Dec	8 Jan'25	5 Mar'25	4-5 Nov	27-28 Nov	27-28 Mar'25	19-20 Dec

4. Regular Training Courses: Details

Micro PLC: MELSEC iQ-F Training

Pre-requisites	<ul style="list-style-type: none"> Participants are expected to know the number systems (Binary, Hex, BCD). Basics of PLC, Basics of Electrical & Electronics
Duration	Two Days

Training Session Timing

Training Timing	09:30 am To 05:00pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
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Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	Introduction to iQ-F Series PLC <ul style="list-style-type: none"> FX5 Series PLC Range Hardware & Feature I/O addressing PLC Programming: GX Works 3 <ul style="list-style-type: none"> Simple Ladder Programming: Project Creation & Transfer Relay Instructions, Timer, Counter Practice
02:00 pm To 05:00 pm	PLC Programming: GX works 3 <ul style="list-style-type: none"> Applied instructions, Arithmetic, Data transfer & Comparison Instructions Bit Grouping & Indexing Advance Programming: CJ, Call, Subroutine, Interrupt Practice
Day 2	
09:30 am To 01:00 pm	Analog Module Programming <ul style="list-style-type: none"> Built in Analog configuration & Function Analog Block/Adaptor interfacing & Programming Practice
02:00 pm To 04:30 pm	Introduction to Structure Programming <ul style="list-style-type: none"> Different editor: Structure Ladder, FBD POU Types: Programming, Function & function Block Standard & User Library Practice
04:30 pm To 05:00 pm	Feedback/ Interaction/ Self-evaluation

Modular PLC: MELSEC iQ-R Training

Pre-requisites	<ul style="list-style-type: none"> Participants are expected to know the number systems (Binary, Hex, BCD). Basics of PLC, Basics of Electrical & Electronics
Duration	Two Day

Training Session Timing

Training Timing	09:30 am To 05:00pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
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Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	Introduction to iQ-R Series PLC <ul style="list-style-type: none"> Range of iQ-R PLC & configuration Hardware & Features Difference Between Q Series & iQ-R series PLC Compatibility with existing Product Line I/O addressing in iQ-R PLC Practice
02:00 pm To 05:00 pm	PLC Programming: GX works 3 <ul style="list-style-type: none"> Creating New Projects Intuitive Program – Drag & Drop Basic Programming – Relay Instruction, Timer, Counter Built in Library Function 3rd Party Partner Library Practice
Day 2	
09:30 am To 01:00 pm	PLC Programming: GX Works 3 <ul style="list-style-type: none"> Creating New Data Label & Setting Labels Creating FB & Programming Using FB Utilizing FB in Other Projects E-Manual Viewer Practice
02:00 pm To 05:00 pm	Analog Programming <ul style="list-style-type: none"> Range of Analog Modules / Intelligent Function Module Connections, Buffer Memory, Configuration Module Library Use of Module Labels for Analog/ Intelligent Module Programming Module Slot Change & Reflection In I/O Assignment Practice

HMI: GOT 2000 Training

Pre-requisites	<ul style="list-style-type: none"> Participants are expected to know the number systems (Binary, Hex, BCD). Basics of PLC, Basics of Electrical & Electronics
Duration	One Day

Training Session Timing

Training Timing	09:30 am To 05:00pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	GOT Hardware review GT Designer Software <ul style="list-style-type: none"> New Project Creations Configuration of GOT communication with PLC OS Selection & Installation: Boot OS, Standard Monitor OS, Communication Driver Different types of Screens Various Objects like Switch/Lamps/Text & Numerical Display, Various Graphs & Other Objects. Practice
02:00 pm To 05:00 pm	GT Designer Software <ul style="list-style-type: none"> Part Display & Part Routes Comments/ Comment Groups/ Comment Display User Alarms: Alarm configuration & Alarm Display. Objects from Library. Practice
04:30 pm To 05:00 pm	Feedback/ Interaction/ Self-evaluation

iQF Advance Training

Pre-requisites	<ul style="list-style-type: none"> • Participants are expected to know the number systems (Binary, Hex, BCD). • Basics of electric motor & Power Electronics, Basics of PLC, • Participants also required knowledge of Mitsubishi Q PLC.
Duration	One Day

Training Session Timing

Training Timing	09:30 am To 05:00 pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
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Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	Introduction to SD Card <ul style="list-style-type: none"> • Understanding of Memory card use • Program boot function. SD Card Function <ul style="list-style-type: none"> • Understanding of Data Logging function • Memory dump function Practice
02:00 pm To 04:30 pm	Introduction of Security Function <ul style="list-style-type: none"> • Block Password • File Password • Security Key Introduction to Structure Programming in iQF PLC <ul style="list-style-type: none"> • Different editor: Structure Ladder, FBD • POU Types: Main Execution, Function & function Block • Standard & User Library • Diagnosis & Troubleshooting Practice
04:30 pm To 05:00 pm	Feedback/ Interaction/ Self-evaluation

iQR Advance Training

Pre-requisites	<ul style="list-style-type: none"> • Participants are expected to know the number systems (Binary, Hex, BCD). • Basics of electric motor & Power Electronics, Basics of PLC, • Participants also required knowledge of Mitsubishi Q PLC.
Duration	One Day

Training Session Timing

Training Timing	09:30 am To 05:00 pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
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Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	<p>Introduction to Advan iQR LC</p> <ul style="list-style-type: none"> • Understanding of Analog Module features • Scale function • Warning function • Wave function, clip function, • Module change function & history <p>Analog Module Programming</p> <ul style="list-style-type: none"> • Overview of Analog I/O function • Built in Analog I/O configuration & Programming • Analog Block/Adaptor interfacing & Programming • List of Special Devices for Analog I/O Adaptor • Buffer Memory details for Analog modules <p>Practice</p>
02:00 pm To 04:30 pm	<p>Introduction to Structure Programming in iQR PLC</p> <ul style="list-style-type: none"> • Different editor: Structure Ladder, FBD • POU Types: Main Execution, Function & function Block • Standard & User Library • Diagnosis & Troubleshooting <p>Practice</p>
04:30 pm To 05:00 pm	Feedback/ Interaction/ Self-evaluation

AC Drives Training

Pre-requisites	<ul style="list-style-type: none"> Participants are expected to know the number systems (Binary, Hex, BCD). Basics of electric motor & Power Electronics, Basics of PLC, Participants also required knowledge of Mitsubishi Q PLC.
Duration	One Day

Training Session Timing

Training Timing	09:30 am To 05:00 pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
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Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	<p>Mitsubishi Inverter: 800 Series</p> <ul style="list-style-type: none"> Basics of inverter Mitsubishi range of Inverters Inverter Selection, Inverter overload duty Selection of Peripheral devices (MCCB/ELCB/Fuse, Magnetic Contactors, Thermal Relay, Filters, Reactors etc.) Motor Types (IM/PM concept) Power and Signal Connections <p>V/F Control</p> <ul style="list-style-type: none"> Operation PU Mode, EXT mode, Analog Signal assignment) Parameters Different types of load patterns Different modes of operations: PU, External & Net Mode JOG Operation, IO assignment & Calibration function, PTC interface, Pulse Input <p>Practice</p>
02:00 pm To 04:30 pm	<p>FR Configurator 2</p> <ul style="list-style-type: none"> Parameter setting Multi- speed Operations Backup, monitoring, trend, Batch monitoring, Alarm history Parameter copying with USB memory, Trace Function <p>Practice</p> <p>Control Theory</p> <ul style="list-style-type: none"> V/F control, GPFVC, AMFVC, SVC, Vector Control & PM Control. Auto Tuning (Offline, Online) Speed, torque & Position control <p>Dynamic Braking & Regenerative braking, Regenerative drive FR-A741</p>
04:30 pm To 05:00 pm	Feedback/ Interaction/ Self-evaluation

LVS Training

Pre-requisites	Participants are expected to know the fundamentals of electricity.
Duration	One Day

Training Session Timing

Training Timing	09:30 am To 05:00 pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
09:20 am	Registration
09:30 am To 01:00 pm	<p>Brush up on basics of electricity.</p> <ul style="list-style-type: none"> • Introduction of Electricity. • Introduction of Voltage, Current, Resistance, Frequency, Conductor, Insulator. • Voltage Terminology for industrial use. • Current Terminology for industrial use. • Breaking Capacity. <p>Usage of switchgear in electricity generation and distribution.</p> <ul style="list-style-type: none"> • Overview of Electrical Power System. • Low Voltage Power Distribution Network. • Type of switchgear. <p>Basics of Motor Starter.</p> <ul style="list-style-type: none"> • Introduction of Magnetic Starter. • Kind of Magnetic Starter. • Service space of starter. • Causes of Motor Failure.
02:00 pm To 05:00 pm	<p>Briefing of LVS products used in Motor starter kit.</p> <ul style="list-style-type: none"> • Circuit structure of Contactor. • Circuit Structure of Thermal Overload Relay. • Function of MPCB. <p>Basics of Multifunction Meter.</p> <ul style="list-style-type: none"> • Overview of Multifunction Meters- ME96SSEAMB & EMMS7-96EAMB. • Hardware & Features. • Parameter Setting in Multifunction Meter. <p>Starting Methods of Motor.</p> <ul style="list-style-type: none"> • DOL starting & its control wiring. • Star-Delta starting & its control wiring. <p>Overview of Motor Starter & Multifunction Meter kit.</p> <ul style="list-style-type: none"> • Front view & internal view of kit. • Features of Kit. • Hands on practice on kit
04:30 pm To 05:00 pm	Feedback/ Interaction/ Self-evaluation

SCADA: MC WorX64 Training

Pre-requisites	<ul style="list-style-type: none"> Participants are expected to know the number systems (Binary, Hex, BCD). Basics of PLC, Basics of Electrical & Electronics
Duration	Two Days

Training Session Timing

Training Timing	09:30 am To 05:00pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
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Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	<p>MC Works 64</p> <ul style="list-style-type: none"> Introduction to MC Works 64 MC works 64: Architecture & Features Installation & System Requirement <p>MX OPC Server</p> <ul style="list-style-type: none"> OPC UA/Classic Interface Tag Creations <p>Workbench</p> <ul style="list-style-type: none"> Introduction to workbench Creating Project Configuration & layout Management Project Management Tool Workbench Run Time <p>GraphWorX64 Basic</p> <ul style="list-style-type: none"> Basic 2D Shapes & Objects <p>Practice</p>
02:00 pm To 05:00 pm	<p>Graph WorX64</p> <ul style="list-style-type: none"> 3D Space & Drawing Tools Dynamics in 3D Space Pipe Control Graph View Control Display Password Protection <p>Workbench Tools</p> <ul style="list-style-type: none"> Global Alias Local Alias Language Alias <p>Practice</p>
Day 2	
09:30 am To 01:00 pm	<p>Alarm WorX64</p> <ul style="list-style-type: none"> Alarm Tag Configuring Alarm Tags Group Alarms Tags by Area Alarm Logger Alarm Report <p>TrendWorX64</p> <ul style="list-style-type: none"> Trend Viewer TrendWorkX64 Logger <p>Practice</p>
02:00 pm To 05:00 pm	<p>Redundancy in MC Works64</p> <ul style="list-style-type: none"> Redundant clients for MC Works64 viewer Redundant Servers Controlled Redundancy Automatic & Manual Switching <p>Practice</p>

Robot - I Training

Pre-requisites	<ul style="list-style-type: none"> Participants are expected to know the Co-ordinates, number systems (Binary, Hex, BCD). Basics of Electronics & Pneumatic
Duration	Two Days

Training Session Timing

Training Timing	09:30 am To 05:00 pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	Robot Safety <ul style="list-style-type: none"> Industrial Robot Safety Basics of Robot <ul style="list-style-type: none"> Introduction to Mitsubishi Robot Series & Hardware Types of Mitsubishi Robot Controller & Manipulation Robot Basic Parameter Setting Device Configuration, Control Power Wiring of User Control (CNUSR) Wiring for External Inputs & Outputs Operation Panel & T/B Origin Setting Robot Operation <ul style="list-style-type: none"> Jog Operation, Hand Operation Joints, Cartesian, Too Jog Operation Robot Hand Opening & Closing Practice
02:00 pm To 05:00 pm	Robot Programming Using Teach Pendant <ul style="list-style-type: none"> Basic Operation of T/B Programming & Position teaching Program Editing Confirming Registered Position Data Operation Automatic Operation Practice Programming Software: RT Toolbox 3 <ul style="list-style-type: none"> Robot Configuration using RT toolbox RT Toolbox Option Robot Programming <ul style="list-style-type: none"> MELFA – Basic V Specification Constants, Variables, Common Variables Program Instructions Command Functions Practice
Day 2	
09:30 am To 01:00 pm	Robot Programming Using RT Toolbox 2 <ul style="list-style-type: none"> Instruction Edit Scree/ Position Edit Screen Editing, teaching, Compensating etc. Program Editing, Debugging Confirming Registered position Data Operation Automatic Operation
02:00 pm To 05:00 pm	Robot Application Programming <ul style="list-style-type: none"> Pick & Place Pallet Operation Machine Tending Robot Parameter & Program Backup Robot Communication Option <ul style="list-style-type: none"> Robot Maintenance & Alarm Practice
04:30 pm To 05:00 pm	Feedback/ Interaction/ Self-evaluation

Servo Basic - II Training

Training Session Timing

Training Timing	09:30 am To 05:00pm
Teatime	10:45 am To 11:00 am & 03:30 pm To 03:45 pm
Lunch Time	01:00 pm To 02:00 pm

Duration	Activity/ Contents
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Day 1	
09:20 am	Registration
09:30 am To 01:00 pm	<p>Overview of Mitsubishi Range of servo Controllers SSCNET Based Servo Controller: QD77MS/ FX5-40SSC-S / RD77MS</p> <ul style="list-style-type: none"> • Hardware Features & Specifications • Servo Amplifier & Servo Motor – Power, Signal Connections <p>SSCNET Based Servo Amplifier: MR-JE / MR-J4-B</p> <ul style="list-style-type: none"> • Features & Specifications • SSCNET Connections with Positioning Controller: QD77MS/ FX5-40SSC-S/RD77MS • External signal Connections: Dog, Stop/Change, FLR & RLS • Module I/O & Buffer memory details: Positioning Status & Command <p>Practice</p>
02:00 pm To 05:00 pm	<p>QD77MS/ FX5-40SSC-S / RD77MS</p> <ul style="list-style-type: none"> • Positioning parameters, Monitoring Data & Control Data • Basic Operation: Servo ON, Jog Operation • Homing Operation: Different Types of Homing methods • Error Monitoring & error Corrections Logic <p>Practice</p>
Day 2	
09:30 am To 01:00 pm	<p>QD77MS/ FX5-40SSC-S / RD77MS</p> <ul style="list-style-type: none"> • Point –to – Point Control using Buffer Memory • Various Positioning Functions: INC/ABS, Interpolation, VF/VR, M-Code etc. • Current Value Change Functions • Speed Override Function <p>Expansion Function</p> <ul style="list-style-type: none"> • Speed – Position – Torque Control Mode Change Over function • Parameter settings and buffer memory configuration <p>Practice</p>
02:00 pm To 04:30 pm	<p>Synchronous Control Function</p> <ul style="list-style-type: none"> • Understanding of synchronous control • Components of synchronous control (Input & Output axis, Diff. gear, Clutch etc.) • Synchronous parameters with single axis & linear cam • Synchronous operation using sequence program <p>CAM Design</p> <ul style="list-style-type: none"> • CAM types, resolution, stroke units • Configuration of different types of CAM <p>Synchronous Parameters in Details</p> <ul style="list-style-type: none"> • Auxiliary Virtual Servo & encoder Axis • Clutches, electronic Gears, Differential Gears & Speed change Gear. • Programming using different components of Synchronous motion <p>Troubleshooting & monitoring</p> <p>Practice</p>
04:30 pm To 05:00 pm	Feedback/ Interaction/ Self-evaluation

5. Training Request Form



Authorised Training Centre of Mitsubishi Electric India Pvt. Ltd.

Title: Training Request Form

Form No.: Doc. No.- FAC/FF/003

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	Ghāziābād Centre () / Faridābād Centre () / Ahmedabad Centre () / Kolkata Centre () Coimbatore Centre () / Hyderabad Centre () / Jammu 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-mentioned 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
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Request: Kindly fill this form & send either hardcopy to nearby training centre or to below address or Email scan copy.

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