

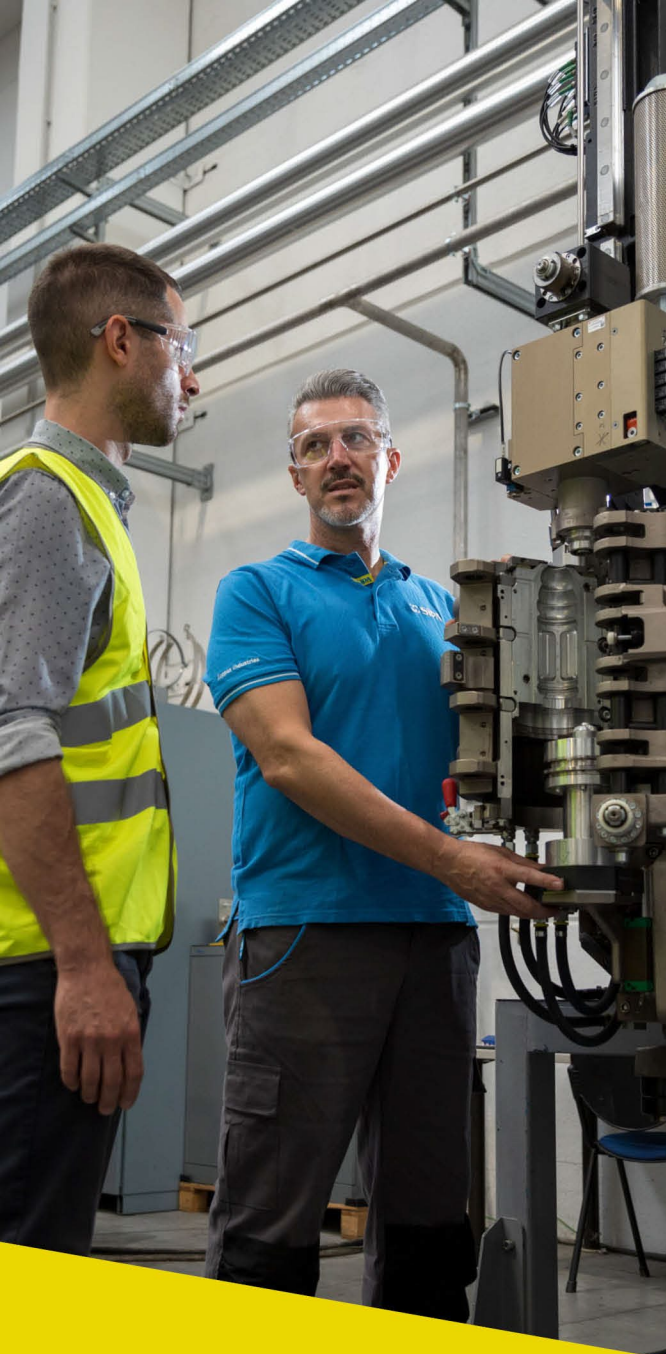
TRAINING COURSE FLYERS 2024



SIPA LCS TECHNICAL TRAINING

Customized training solutions based on
the real needs of the customer





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PLASTIC TECHNOLOGY - BLOWERS

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XTRA - BASIC OPERATIONS

CODE: XTR-BSC DURATION: 3 DAYS

XTRA

COURSE OBJECTIVE

Provide basic notions on the proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with practical activities and explanation directly on the machine.

GOALS

Train the operators regarding start up / shut down and proper machine handling, keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine lay-out overview
- › Safety systems
- › HMI approach and main functional pages
- › Auxiliaries start up and shut down (chiller & compressor)
- › Blower start up and shut down (Sincro when suitable)
- › Product recipe recall
- › Mold changeover procedures + PRS
- › Ordinary & periodical maintenance

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is about 3 (three) working days.
Suggested lessons timetable is: from 9.00 a.m. to 5.00 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

XTRA - ADVANCED OPERATIONS

CODE: XTR-ADV DURATION: 4 DAYS

XTRA

COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstanding on SIPA's machine functions. Introduce in-depth technical notions both in the classroom and with hands-on activities directly on the equipment.

GOALS

Instruct the team to avoid misunderstandings and correct eventual improper machine usage. Transfer to Operators and Maintenance teams the complete know-how to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

TARGET AUDIENCE

Machine Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine lay-out overview & safety systems control
- › Machine oven settings (video pages)
- › Machine stretching settings (video pages)
- › Machine pneumatic settings (video pages)
- › Systems overview (electrical, water cooling, pneumatic)
- › New recipe settings
- › Heating and blowing graph reading

REQUIREMENTS

Participants must have attended the BSC-OP level. Mechanical and Electrical basic background are requested. With proved experience achieved while conducting the machine "on the Job" for at least 3 months.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days. Suggested lessons timetable is: from 9 a.m. to 5 p.m. Method: 60% Classroom & 40% Practical sessions. The maximum number of participants suggested is 6 (six) people.

XTRA - AUTOMATION & CONTROLS

CODE: XTR-AUTOM DURATION: 3 DAYS

XTRA

COURSE OBJECTIVE

Exclusively aimed at electronics lay-out, components and schematics for a detailed knowledge on automatic systems adopted and component logical function focused on trouble shooting procedures of SIPA machines.

GOALS

Coach Electrical Maintenance technicians to understand the complex matters of the machine, with detailed explanation on components and parts including logic of operation focusing on machine maintenance and components replacement.

TARGET AUDIENCE

Maintenance staff with specific experience on the automation process.

CONTENTS

- › Machine Electrical Lay out
- › How to read the electrical drawings
- › Structure, network and remote modules
- › Drive connections, motor, encoder, axes (synchronization)
- › System operation and related video pages
- › Troubleshooting
- › Parts replacing and set up (calibrations)

REQUIREMENTS

Technicians who already attended the ADV-OP and/or MAINT SIPA levels training with previous experience of troubleshooting activities on Sipa Blowers or similar bottling advanced technologies.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

XTRA - PNEUMATIC & WATER COOLING SYSTEM

CODE: XTR-PNEUM DURATION: 3 DAYS

XTRA

COURSE OBJECTIVE

Advanced course on SIPA rotary blower focused on system lay-out, operations, settings, controls and troubleshooting.

CONTENTS

- › Pneumatic circuit Lay out
- › Pneumatic valves Troubleshooting (ARS/ARS+) (graph reading)
- › Pneumatic: compensation HP, seals LP, brakes LP etc.
- › Water cooling circuit lay out (oven cooling/ mold cooling)
- › Water cooling troubleshooting: filters/3way valves/pumps etc.
- › Parts replacing and set up (calibrations)

GOALS

Train technical staff to recognize pneumatic and water cooling components layout. Troubleshooting solutions with machine video pages inspection, according to dynamic water and airflow circuits. Alarms list reading and components supervision. Operations explained both theoretically and practically on installed machines.

REQUIREMENTS

Attendees should have a specific experience on the process and should have attended the ADV-OP and/or MAINT SIPA levels training.

TARGET AUDIENCE

Maintenance technicians with previous experience of troubleshooting activities on Sipa Blowers or similar bottling advanced technologies.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

XTRA - MECHANICAL SETTINGS & MAINTENANCE

CODE: XTR-MAINT DURATION: 4 DAYS

XTRA

COURSE OBJECTIVE

Class aimed to mechanics personnel involved into maintenance activities and Operators able to understand machine's complex matters of the machine with a deep explanation on components and parts, focusing on machine's extraordinary maintenance and components replacing.

GOALS

Deepening the procedures related to the extraordinary maintenance of the machine, vanishing doubts raised during initial working experience on the system.

TARGET AUDIENCE

Maintenance technicians and operators confident with the complex matters of the machine and with a detailed knowledge on components and parts, focusing attention to machine's extraordinary maintenance and components in replacement.

CONTENTS

- › Mechanical Alignments (pulleys, wheels)
- › Mechanical Press Adjustment (cams)
- › Automatic lubrication operation and settings
- › Parts replacing and set up (calibrations/video pages)
- › Programmed Maintenance Video Pages

REQUIREMENTS

Technicians that have attended the BSC-OP and/or ADV-OP level training and have a good knowledge of mechanical and/or electrical principles.
Have experience as mechanical maintenance worker.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

XTRA - PET BLOWING PROCESS

CODE: XTR-PRCS DURATION: 3 DAYS

XTRA

COURSE OBJECTIVE

Advanced Process Training on SIPA machine process, PET treatment and quality of the final product (bottles). Coach technical team to manage optimal product quality, with structured notions and practical tests customized on specific client product design. The activities include quality tests, process theory and practical settings.

GOALS

Train the team across the large selection of process technological applications suitable in SIPA machines for the manufacturing of PET plastic containers, as well as optimize machine performance to reduce energy consumption (electrical/air/water).

TARGET AUDIENCE

Operators with basic experience on PET process, Process Line Supervisors, Process Quality Team, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › PET introduction and characteristics
- › Create a new recipe Blower machine
- › Heating setting procedures
- › Stretching setting procedures
- › Blowing setting procedures
- › Graph reading and process troubleshooting (heating/blowing)
- › Product Quality issues (Flat, CSD, HF Aseptic Configuration)
- › Lab Test and standard rules

REQUIREMENTS

Previous proven experience on PET process, attending at the ADV-OP and MAINT SIPA level trainings.

PRACTICAL INFORMATION

The standard duration of the course is about 3 (three) working days.
Suggested lessons timetable is:
from 9.00 a.m. to 5.00 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFR - BASIC OPERATIONS

CODE: SFR-BSC DURATION: 3 DAYS



COURSE OBJECTIVE

Provide basic notions on the proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators concerning start up / shut down and machine handling keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine lay-out overview
- › Safety systems
- › HMI approach and main functional pages
- › Auxiliaries start up and shut down (chiller & compressor)
- › Blower start up and shut down (Sincro when suitable)
- › Product recipe recall
- › Mold changeover procedures + PRS
- › Ordinary & periodical maintenance

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is about 3 (three) working days.
Suggested lessons timetable is:
from 9.00 a.m. to 5.00 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFR - ADVANCED OPERATIONS

CODE: SFR-ADV DURATION: 4 DAYS



COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstanding over SIPA's machine functions. Introduce in-depth technical notions provided both in the classroom and in hands-on activities directly on the equipment.

GOALS

Instruct the team to avoid misunderstandings and correct eventual improper machine usage.
Transfer to Operators and Maintenance teams the complete know-how in order to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

TARGET AUDIENCE

Machine Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine lay-out overview & safety systems control
- › Machine oven settings (video pages)
- › Machine stretching settings (video pages)
- › Machine pneumatic settings (video pages)
- › Systems overview (electrical, water cooling, pneumatic)
- › New recipe settings
- › Heating and blowing graph reading

REQUIREMENTS

Participants must have attended the BSC-OP level. Mechanical and Electrical basic background are requested. With proved experience achieved while conducting the machine "on the Job" for at least 3 months.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 60% Classroom & 40% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFR - AUTOMATION & CONTROLS

CODE: SFR-AUTOM DURATION: 3 DAYS



COURSE OBJECTIVE

Exclusively aimed at electronics lay-out, components and schematics for a detailed knowledge on automatic systems adopted and component logical function focused on trouble shooting procedures of SIPA machines.

GOALS

Coach Electrical Maintenance technicians to understand the complex matters of the machine, with detailed explanation on components and parts including logic of operation focusing on machine maintenance and components replacement.

TARGET AUDIENCE

Maintenance staff with specific experience on the automation process.

CONTENTS

- › Machine Electrical Lay out
- › How to read the electrical drawings
- › Structure, network and remote modules
- › Drive connections, motor, encoder, axes (synchronization)
- › System operation and related video pages
- › Troubleshooting
- › Parts replacing and set up (calibrations)

REQUIREMENTS

Technicians who already attended the ADV-OP and/or MAINT SIPA levels training with previous experience of troubleshooting activities on Sipa Blowers or similar bottling advanced technologies.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days corresponding to 21 working hours (7h/day).
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFR - PNEUMATIC & WATER COOLING SYSTEM

CODE: SFR-PNEUM DURATION: 3 DAYS



COURSE OBJECTIVE

Advanced course on SIPA blower machine focused on system lay-out, operations, settings, controls and troubleshooting.

CONTENTS

- › Pneumatic circuit Lay out
- › Pneumatic valves Troubleshooting (ARS/ARS+) (graph reading)
- › Pneumatic: compensation HP, seals LP, brakes LP etc.
- › Water cooling circuit lay out (oven cooling/ mold cooling)
- › Water cooling troubleshooting: filters/3way valves/pumps etc.
- › Parts replacing and set up (calibrations)

GOALS

Train technical staff to recognize pneumatic and water cooling components layout. Troubleshooting solutions with machine video pages inspection, according to dynamic water and airflow circuits. Alarms list reading and components supervision. Operations explained both theoretically and practically on installed machines.

REQUIREMENTS

Attendees should have a specific experience on the process and should have attended the ADV-OP and/or MAINT SIPA levels training.

TARGET AUDIENCE

Maintenance technicians with previous experience of troubleshooting activities on Sipa Blowers or similar bottling advanced technologies.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFR - MECHANICAL SETTINGS & MAINTENANCE

CODE: SFR-MAINT DURATION: 4 DAYS



COURSE OBJECTIVE

Class aimed to mechanics personnel involved into maintenance activities and to Operators able to understand the complex matters of the machine with a detailed explanation of components and parts, focusing on the machine's extraordinary maintenance and components replacing.

GOALS

Deepen the procedures related to the extraordinary maintenance of the machine, clarifying possible doubts raised during initial working experience on the machine.

TARGET AUDIENCE

Maintenance technicians and operators confident with the complex matters of the machine and with a detailed knowledge on components and parts, focusing attention to machine's extraordinary maintenance and components replacement.

CONTENTS

- › Mechanical Alignments (pulleys, wheels)
- › Mechanical Press Adjustment (cams)
- › Automatic lubrication operation and settings
- › Parts replacing and set up (calibrations/video pages)
- › Programmed Maintenance Video Pages

REQUIREMENTS

Technicians must have attended the BSC-OP and/or ADV-OP level training and have a good knowledge of mechanical and/or electrical principles. Have experience as mechanical maintenance worker.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFR - PET BLOWING PROCESS

CODE: SFR-PRCS DURATION: 3 DAYS



COURSE OBJECTIVE

Advanced Process Training on SIPA machine process, PET treatment and quality of the final product (bottles). Coach technical team to perform optimal product quality, with structured notions and practical tests customized on specific client product design. The activities include quality tests, process theory and practical settings.

GOALS

Train the team across the large selection of process technological applications suitable in SIPA machines for the manufacturing of PET plastic containers, as well as optimize machine performance in order to reduce energy consumption (electrical/air/water).

TARGET AUDIENCE

Operators with basic experience on PET process, Process Line Supervisors, Process Quality Team.

CONTENTS

- › PET introduction and characteristics
- › Create a new recipe
- › Heating setting procedures
- › Stretching setting procedures
- › Blowing setting procedures
- › Graph reading and process troubleshooting (heating/blowing)
- › Product Quality issues (Flat, CSD, HF, Aseptic configuration)
- › Lab Test and standard rules

REQUIREMENTS

Proven previous experience on PET process, attending the ADV-OP and MAINT SIPA level trainings.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL - BASIC OPERATIONS

CODE: SFL-BSC DURATION: 3 DAYS



COURSE OBJECTIVE

Provide basic notions on the proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators with proper knowledge concerning start up / shut down and machine handling keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

Operators, Mechanics, Line Supervisors, Maintenance Staff

CONTENTS

- › Machine lay-out overview
- › Safety systems
- › HMI approach and main functional pages
- › Auxiliaries start up and shut down (chiller & compressor)
- › Blower start up and shut down (Sincro when suitable)
- › Product recipe recall
- › Mold changeover procedures + PRS
- › Ordinary & periodical maintenance

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background

PRACTICAL INFORMATION

The standard duration of the course is about 3 (three) working days.
Suggested lessons timetable is:
from 9.00 a.m. to 5.00 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL - ADVANCED OPERATIONS

CODE: SFL-ADV DURATION: 4 DAYS



COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstanding on SIPA machine functions. Introduce in-depth technical notions provided both in the classroom and in hands-on activities directly on the equipment.

GOALS

Instruct the team to avoid misunderstandings and correct eventual improper machine usage.
Transfer to Operators and Maintenance teams the complete know-how in order to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

TARGET AUDIENCE

Machine Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine lay-out overview & safety systems control
- › Machine oven settings (video pages)
- › Machine stretching settings (video pages)
- › Machine pneumatic settings (video pages)
- › Systems overview (electrical, water cooling, pneumatic)
- › New recipe settings
- › Heating and blowing graph reading

REQUIREMENTS

Participants must have attended the BSC-OP level. Mechanical and Electrical basic background are requested, with proved experience achieved while running the machine "on the Job" for at least 3 months.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 60% Classroom & 40% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL - AUTOMATION & CONTROLS

CODE: SFL-AUTOM DURATION: 4 DAYS



COURSE OBJECTIVE

Exclusively aimed at electronics lay-out, components and schematics for a detailed knowledge on automatic systems adopted and component logical function focused on trouble shooting procedures of SIPA machines.

GOALS

Coach Electrical Maintenance technicians to understand the complex matters of the machine, with detailed explanation on components and parts including logic of operation focusing on the machine's maintenance and components replacement.

TARGET AUDIENCE

Maintenance staff with specific experience on the automation process.

CONTENTS

- › Machine Electrical Lay out
- › How to read the electrical drawings
- › Structure, network and remote modules
- › Drive connections, motor, encoder, axes (synchronization)
- › System operation and related video pages
- › Troubleshooting
- › Parts replacing and set up (calibrations)

REQUIREMENTS

Technicians who already attended the ADV-OP and/or MAINT SIPA levels training with previous experience of troubleshooting activities on Sipa Blowers or similar bottling advanced technologies.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL - PNEUMATIC & WATER COOLING SYSTEM

CODE: SFL-PNEUM DURATION: 3 DAYS



COURSE OBJECTIVE

Advanced course on SIPA blower machine focused on system lay-out, operations, settings, controls and troubleshooting.

GOALS

Train technical staff to recognize pneumatic and water cooling components layout. Troubleshooting solutions with machine video pages inspection, according to dynamic water and airflow circuits. Alarms list reading and components supervision. Operation conducted theoretically and practically on installed machines.

TARGET AUDIENCE

Maintenance technicians with previous experience of troubleshooting activities on Sipa Blowers or similar bottling advanced technologies.

CONTENTS

- › Pneumatic circuit Lay out
- › Pneumatic valves Troubleshooting (ARS/ARS+) (graph reading)
- › Pneumatic: compensation HP, seals LP, brakes LP etc.
- › Water cooling circuit lay out (oven cooling/ mold cooling)
- › Water cooling troubleshooting: filters/3way valves/pumps etc.
- › Parts replacing and set up (calibrations)

REQUIREMENTS

Attendees should have a specific experience on the process and should have attended the ADV-OP and/or MAINT SIPA levels training.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days. Suggested lessons timetable is: from 9 a.m. to 5 p.m. Method: 40% Classroom & 60% Practical sessions. The maximum number of participants suggested is 6 (six) people.

SFL - MECHANICAL SETTINGS & MAINTENANCE

CODE: SFL-MAINT DURATION: 3 DAYS



COURSE OBJECTIVE

Class aimed to mechanics personnel involved into maintenance activities and Operators able to understand the complex matters of the machine with in-depth explanation on components and parts, focusing on machine's extraordinary maintenance and components replacement.

GOALS

Deepen the procedures related to the extraordinary maintenance of the machine, vanishing doubts raised during initial working experience on the machine.

TARGET AUDIENCE

Maintenance technicians and operators confident with the complex matters of the machine and with a detailed knowledge on components and parts, focusing attention to machine's extraordinary maintenance and components in replacement.

CONTENTS

- › Mechanical Alignments
- › Press leverage and bottom plate adjustment
- › Automatic lubrication operation and settings
- › Parts replacing and set up (calibrations/video pages)
- › Troubleshooting
- › Programmed Maintenance Video Pages

REQUIREMENTS

Technicians that have attended the BSC-OP and/or ADV-OP level training and have a good knowledge of mechanical and/or electrical principles.
Have experience as mechanical maintenance worker.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL - PET BLOWING PROCESS

CODE: SFL-PRCS DURATION: 3 DAYS



COURSE OBJECTIVE

Advanced Process on SIPA machine process, PET treatment and quality of the final product (bottles). Coach technical team to perform optimal product quality, through structured notions and practical tests customized on specific client product design. The activities include quality tests, process theory and practical settings.

GOALS

Train the team across the large selection of process technological applications available in SIPA machines for the manufacturing of PET containers as well as optimize machine performance in order to reduce energy consumption (electrical/air/water).

TARGET AUDIENCE

Operators with basic experience on PET process, Process Line Supervisors, Process Quality Team.

CONTENTS

- › PET introduction and characteristics
- › Create a new recipe
- › Heating setting procedures
- › Stretching setting procedures
- › Blowing setting procedures
- › Graph reading and process troubleshooting (heating/blowing)
- › Product Quality issues (Flat, CSD, HF, Aseptic configuration)
- › Lab Test and standard rules

REQUIREMENTS

Proven experience on PET process, having attended the ADV-OP and MAINT SIPA level trainings.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL EVO - BASIC OPERATIONS

CODE: SFL-BSC DURATION: 3 DAYS

SFL EVO

COURSE OBJECTIVE

Provide basic notions on the proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators with proper knowledge concerning start up / shut down and machine handling keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine lay-out overview
- › Safety systems
- › HMI approach and main functional pages
- › Auxiliaries start up and shut down (chiller & compressor)
- › Blower start up and shut down (Sincro when suitable)
- › Product recipe recall
- › Mold changeover procedures + PRS
- › Ordinary & periodical maintenance

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is about 3 (three) working days.
Suggested lessons timetable is:
from 9.00 a.m. to 5.00 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL EVO - ADVANCED OPERATIONS

CODE: SFL-ADV DURATION: 4 DAYS

SFL EVO

COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstanding on SIPA machine functions. Introduce in-depth technical notions provided both in the classroom and in hands-on activities directly on the equipment.

GOALS

Instruct the team to avoid misunderstandings and correct eventual improper machine usage.
Transfer to Operators and Maintenance teams the complete know-how to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

TARGET AUDIENCE

Machine Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine lay-out overview & safety systems control
- › Machine oven settings (video pages)
- › Machine stretching settings (video pages)
- › Machine pneumatic settings (video pages)
- › Systems overview (electrical, water cooling, pneumatic)
- › New recipe settings
- › Heating and blowing graph reading

REQUIREMENTS

Participants must have attended the BSC-OP level. Mechanical and Electrical basic background are requested. With proved experience achieved while running the machine "on the Job" for at least 3 months.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 60% Classroom & 40% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL EVO-PNEUMATIC & WATER COOLING SYSTEM

CODE: SFL-PNEUM DURATION: 3 DAYS



COURSE OBJECTIVE

Advanced course on SIPA blower machine focused on system lay-out, operations, settings, controls and troubleshooting.

CONTENTS

- › Pneumatic circuit Lay out
- › Pneumatic valves Troubleshooting (ARS/ARS+) (graph reading)
- › Pneumatic: compensation HP, seals LP, brakes LP etc.
- › Water cooling circuit lay out (oven cooling/ mold cooling)
- › Water cooling troubleshooting: filters/3way valves/pumps etc.
- › Parts replacing and set up (calibrations)

GOALS

Teach to technical staff pneumatic and water cooling components layout. Troubleshooting solutions through machine video pages inspection, according to dynamic water and airflow circuits. Alarms list reading and components supervision. Courses are both theoretical and practical on installed machines.

REQUIREMENTS

Attendees should have a specific experience on the process and should have attended the ADV-OP and/or MAINT SIPA levels training.

TARGET AUDIENCE

Maintenance technicians with previous experience of troubleshooting activities on Sipa Blowers or similar bottling advanced technologies.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days. Suggested lessons timetable is: from 9 a.m. to 5 p.m. Method: 40% Classroom & 60% Practical sessions. The maximum number of participants suggested is 6 (six) people.

SFL EVO - AUTOMATION & CONTROLS

CODE: SFL-AUTOM DURATION: 4 DAYS

SFL EVO

COURSE OBJECTIVE

Exclusively aimed at electronics lay-out, components and schematics for a detailed knowledge on automatic systems adopted and component logical function focused on trouble shooting procedures of SIPA machines.

GOALS

Teach Electrical Maintenance technicians to understand the complex matters of the machine, with detailed explanation on components and parts including logic of operation focusing on the machine's maintenance and components replacement.

TARGET AUDIENCE

Maintenance staff with specific experience on the automation process.

CONTENTS

- › Machine Electrical Lay out
- › How to read the electrical drawings
- › Structure, network and remote modules
- › Drive connections, motor, encoder, axes (synchronization)
- › System operation and related video pages
- › Troubleshooting
- › Parts replacing and set up (calibrations)

REQUIREMENTS

Technicians that have attended at the ADV-OP and/or MAINT SIPA levels training with previous experience of troubleshooting activities on Sipa Blowers or similar bottling advanced technologies.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL EVO-MECHANICAL SETTINGS&MAINTENANCE

CODE: SFL-MAINT DURATION: 3 DAYS

SFL EVO

COURSE OBJECTIVE

Class exclusively aimed to mechanics personnel involved into maintenance activities and Operators able to understand the complex matters of the machine with an in-depth explanation of components and parts, focusing on the machine's extraordinary maintenance and components replacing.

GOALS

Deepen the procedures related to the extraordinary maintenance of the machine, vanishing doubts born during initial working experience on the machine.

TARGET AUDIENCE

Maintenance technicians and operators confident with the complex matters of the machine and with a detailed knowledge on components and parts, focusing attention to machine's extraordinary maintenance and components in replacement.

CONTENTS

- › Mechanical Alignments
- › Press leverage and bottom plate adjustment
- › Automatic lubrication operation and settings
- › Parts replacing and set up (calibrations/video pages)
- › Troubleshooting
- › Programmed Maintenance Video Pages

REQUIREMENTS

Technicians that have attended the BSC-OP and/or ADV-OP level training and have a good knowledge of mechanical and/or electrical principles.
Have experience as mechanical maintenance worker.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SFL EVO - PET BLOWING PROCESS

CODE: SFL-PRCS DURATION: 3 DAYS

SFL EVO

COURSE OBJECTIVE

Advanced Process Training on SIPA machine process, PET treatment and quality of the final product (bottles). Coach technical team to perform optimal product quality, through structured notions and practical tests customized on specific client product design. The activities include quality tests, process theory and practical settings.

GOALS

Train the team across the large selection of process technological applications suitable in SIPA machines for the manufacturing of PET containers, as well as optimize machine performance in order to reduce energy consumption (electrical/air/water).

TARGET AUDIENCE

Operators with basic experience on PET process, Process Line Supervisors, Process Quality Team.

CONTENTS

- › PET introduction and characteristics
- › Create a new recipe
- › Heating setting procedures
- › Stretching setting procedures
- › Blowing setting procedures
- › Graph reading and process troubleshooting (heating/blowing)
- › Product Quality issues (Flat, CSD, HF, Aseptic configuration)
- › Lab Test and standard rules

REQUIREMENTS

Proven previous experience on PET process, attending at the ADV-OP and MAINT SIPA level trainings.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

PLASTIC TECHNOLOGY - INJECTION

EQUIPMENT	TRAINING PROGRAMS	CODE	PAG
XFORM	Basic Operations	XFM-BSC	29
	Advanced Operations	XFM-ADV	30
	Automation & Controls	XFM-AUTOM	31
	Hydraulic System	XFM-HYDR	32
	PET Injection Process	XFM-PRCS	33
XTREME	Basic Operations	XTRM-BSC	34
	Advanced Operations	XTRM-ADV	35
	Automation & Controls	XTRM-AUTOM	36
	Pneumatic & Water Cooling System	XTRM-PNEUM	37
	Mechanical Settings & Maintenance	XTRM-MAINT	39
	PET Injection Process	XTRM-PRCS	39

XFORM - BASIC OPERATIONS

CODE: XFM-BSC DURATION: 4 DAYS

XFORM

COURSE OBJECTIVE

Provide basic notions on the proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators on the start up / shut down and machine handling, keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Safety systems
- › Machine operations and functional groups (auxiliaries included)
- › HMI approach and main functional pages
- › Start up and shut down procedures
- › Changeover operation overview (if needed)
- › Basic Troubleshooting (warnings, status report)
- › Ordinary & Periodical maintenance

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

XFORM - ADVANCED OPERATIONS

CODE: XFM-ADV DURATION: 4 DAYS

XFORM

COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstandings over SIPA's machine functions. Introducing deep technical notions both in the classroom and in hands-on activities directly on the equipment.

GOALS

Instruct the team to avoid operation misunderstandings and correct eventual improper machine usage. Provide complete know-how to Operator & Maintenance team to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

TARGET AUDIENCE

Machine Operators, Mechanics, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine Operation and Cycle
- › HMI overview
- › Heating settings
- › Extruder and Injection settings
- › Press: mold height, clamping force, mold protection, ejector movements
- › Post Mold Cooling setting
- › Systems Overview (electrical, hydraulic, pneumatic)
- › Recipe management

REQUIREMENTS

Participants must have attended the BSC-OP level. Mechanical and Electrical basic background are requested. With proved experience achieved while running the machine "on the Job" for at least 3 months.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 60% Classroom & 40% Practical sessions
The maximum number of participants suggested is 6 (six) people.

XFORM - AUTOMATION & CONTROLS

CODE: XFM-AUTOM DURATION: 3 DAYS

XFORM

COURSE OBJECTIVE

Exclusively aimed to the electronics lay out, components and detailed schematics for a deep knowledge on automatic systems adopted and component logical function, focused on troubleshooting procedures.

GOALS

Coach the Electrical Maintenance technicians to understand the complex matters of the machine, with detailed explanation on components and parts including logic of operation focusing on the machine's maintenance and components replacement.

TARGET AUDIENCE

Maintenance staff with specific experience on the automation process.

CONTENTS

- › Safety System
- › How to read the electrical drawings
- › Structure, network and remote nodes
- › PLC System
- › Drive connections, motor, encoder, axes
- › System operation and video pages related
- › Troubleshooting
- › Parts replacing and set up (calibrations)

REQUIREMENTS

Technicians that have attended at the ADV-OP, that already achieved previous experience of troubleshooting activities.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

XFORM - HYDRAULIC SYSTEM

CODE: XFM-HYDR DURATION: 2 DAYS

XFORM

COURSE OBJECTIVE

The course aims to introduce and increase the ability to read and interpret hydraulic diagrams and provide basic knowledge on the functioning of components, systems and typical adjustments of this technology.

GOALS

Acquire technical knowledge and basic concepts of hydraulics and be able to carry out maintenance, replacement and troubleshooting activities of hydraulic system components with greater awareness.

TARGET AUDIENCE

Maintenance staff with specific experience.

CONTENTS

- › Safety System
- › How to read an Hydraulic diagram
- › Overview of the individual Hydraulic components
- › Pumps, Accumulator, Oil Tank and Safeties
- › Motion Groups
- › Troubleshooting

REQUIREMENTS

Maintenance Team that attended previously the Automation & Controls Course training and have a good knowledge of mechanical and/or electrical principles.
Have experience as mechanical maintenance worker.

PRACTICAL INFORMATION

The standard duration of the course is up to 2 (two) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

XFORM - PET INJECTION PROCESS

CODE: XFM-PRCS DURATION: 3 DAYS

XFORM

COURSE OBJECTIVE

Advanced Process Training exclusively aimed on SIPA machine process, PET treatment and quality of the final product (preforms).
Coach technical team to perform optimal product quality, through structured notions and practical test activities customized per client product design.
The activities include quality tests, process theory and practical settings.

CONTENTS

- › Machine Cycle & Sequence
- › PET resin properties
- › Resin Drying management
- › Extruder Process Settings
- › Injection Process Settings
- › PMC Process Settings
- › Quality instrumental monitoring
- › Preform troubleshooting

GOALS

Train the team across the large selection of process technological applications available in SIPA machines for the manufacturing of PET containers, as well as optimize machine performance in order to reduce energy consumption (electrical/air/water).

REQUIREMENTS

Proven previous experience on PET process, attended the ADV-OP and/or SIPA Machine Setting level trainings.

TARGET AUDIENCE

Operators with basic experience on PET process, Process Line Supervisors, Process Quality Team.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions
The maximum number of participants suggested is 6 (six) people.

XTREME - BASIC OPERATIONS

CODE: XTRM-BSC DURATION: 4 DAYS

XTREME

COURSE OBJECTIVE

Provide basic notions on the proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators on the start up / shut down and machine handling with proper knowledge to keep productivity and product quality as specified by contract.

TARGET AUDIENCE

New operators, Line Supervisors, Maintenance Staff.

CONTENTS

- › Safety systems
- › Machine operations and functional groups (auxiliaries included)
- › HMI approach and main functional pages
- › Start up and shut down procedures
- › Changeover operation overview
- › Basic Troubleshooting (warnings/ alarms)
- › Ordinary & Periodical maintenance

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m. .
Method: 30% Classroom & 70% Practical sessions
The maximum number of participants suggested is 6 (six) people.

XTREME - ADVANCED OPERATIONS

CODE: XTRM-ADV DURATION: 4 DAYS

XTREME

COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstandings over SIPA's machine functions. Introducing deep technical notions taught both in the classroom and in hands-on activities directly on the equipment.

GOALS

Instruct the team to avoid operation misunderstandings and correct eventual improper machine usage. Provide complete know-how to Operator & Maintenance team to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

TARGET AUDIENCE

Machine Operators, Mechanics, Line Supervisors, Maintenance Staff

CONTENTS

- › Safety System
- › Machine Operation and Functional Groups
- › HMI & Video Pages overview
- › Press property and adjustment/press tonnage system
- › Transfer star and post mold cooling
- › Systems Overview (electrical, pneumatic, water)
- › Product and change over overview

REQUIREMENTS

Participants must have attended the BSC-OP level. Mechanical and Electrical basic background are requested. With proved experience achieved while running the machine "on the Job" for at least 3 months.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions
The maximum number of participants suggested is 6 (six) people.

XTREME - AUTOMATION & CONTROLS

CODE: XTRM-AUTOM DURATION: 2 DAYS

XTREME

COURSE OBJECTIVE

Exclusively aimed on the electronics lay out, components and schematics of Sipa machine for a detailed knowledge on automatic systems adopted and component logical function focused on trouble shooting procedures.

GOALS

Coach Electrical Maintenance technicians to be able to understand the complex matters of the machine, with detailed explanation on components and parts including logic of operation, focusing on the machine's maintenance and components replacement.

TARGET AUDIENCE

Maintenance staff with specific experience on the automation process.

CONTENTS

- › Safety System
- › How to read the electrical drawings.
- › Network layout and remote nodes.
- › PLC system, following electrical scheme (power supply, heating's)
- › Electric motions, drives, motors, encoders, replacing, set up: mold wheel, transfer star, preforms cooler, extruder, dozer
- › System operation and video pages related
- › Trouble-shooting

REQUIREMENTS

Technicians that have attended at the ADV-OP and already achieved previous experience throughout troubleshooting activities.

PRACTICAL INFORMATION

The standard duration of the course is up to 2 (two) working days corresponding to 14 working hours (7h/day).
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions
The maximum number of participants suggested is 6 (six) people.

XTREME-PNEUMATIC & WATER COOLING SYSTEM

CODE: XTRM-PNEUM DURATION: 3 DAYS

XTREME

COURSE OBJECTIVE

Advance handling course aimed on SIPA machine, focused on the systems lay out, operations, settings, controls and troubleshooting.

CONTENTS

- › Safety System
- › Pneumatic circuit lay out
- › Injection Group operation
- › ARS system
- › Compression group operation
- › Wedges group operation
- › Water cooling circuit lay out
- › Mold emptying and filling circuit

GOALS

Teach technical staff to recognize pneumatic and water cooling components layout. Troubleshooting solutions by means of machine video pages inspection, according to dynamic water and airflow circuits. Alarms list reading and components supervision. Operation conducted theoretically and practically on the installed equipment.

REQUIREMENTS

A specific experience on the process and to have attended the ADV-OP and/or Automation & Control level training

TARGET AUDIENCE

Maintenance technicians who already achieved previous experience throughout troubleshooting activities on Sipa machines technologies.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days corresponding to 21 working hours (7h/day).
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions
The maximum number of participants suggested is 6 (six) people.

XTREME-MECHANICAL SETTINGS&MAINTENANCE

CODE: XTRM-MAINT DURATION: 4 DAYS

XTREME

COURSE OBJECTIVE

Class exclusively aimed to mechanic personnel involved into maintenance activities and Operators able to understand the complex matters of the machine with a clear explanation of components and parts, focusing on the machine's extraordinary maintenance and components replacing.

GOALS

Deepen the procedures related to the extraordinary maintenance of the machine, clearing eventual doubts raised during initial working experience on the machine.

TARGET AUDIENCE

Maintenance technicians and operators confident in the complex matters of the machine, with a detailed explanation about components and parts, focusing attention to machine's extraordinary maintenance and components replacement.

CONTENTS

- › Presses, cams and wedges adjustment
- › Alignment and synchronization of mold wheel to frame
- › Alignment and synchronization of transfer star to mold wheel
- › Alignment and synchronization of cooler chain to transfer star
- › Gripper opening positions
- › Nozzle contact force
- › Automatic lubrication operation and settings
- › Mold Maintenance

REQUIREMENTS

Technicians that have attended the BSC-OP and/or ADV-OP level training and have a good knowledge of mechanical and/or electrical principles.
Have experience as mechanical maintenance worker.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions
The maximum number of participants suggested is 6 (six) people.

XTREME -PET INJECTION PROCESS

CODE: XTRM-PRCS DURATION: 3 DAYS

XTREME

COURSE OBJECTIVE

Advanced Process Training on SIPA machine process, PET treatment and the quality of the final product (preforms). Coach technical team to perform optimal product quality, through structured notions and practical test activities customized per client product design. The activities are including quality tests, process theory and practical settings.

GOALS

Train the team across the large selection of process technological applications available in SIPA machines for the manufacturing of PET containers, as well as optimize machine performance in order to reduce energy consumption (electrical/air/water).

TARGET AUDIENCE

Operators with basic experience on PET process, Process Line Supervisors, Process Quality Team.

CONTENTS

- › PET resin properties
- › Resin drying management
- › XTREME operation and cycle
- › Extruder process settings
- › Injection and compression process setting
- › Post mold cooling, operation and controls
- › Monitoring Controls Video Page
- › Preforms troubleshooting

REQUIREMENTS

Proven previous experience on PET process, attending at the ADV-OP and/or MAINT SIPA level trainings.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days corresponding to 21 working hours (7h/day). Suggested lessons timetable is: from 9 a.m. to 5 p.m. Method: 50% Classroom & 50% Practical sessions The maximum number of participants suggested is 6 (six) people.

PLASTIC TECHNOLOGY – SINGLE STAGE

EQUIPMENT	TRAINING PROGRAMS	CODE	PAG
<p>ECS SP</p>	<p>Basic Operations Advanced Operations PET Injection Process</p>	<p>SP-BSC</p>	<p>41</p>
		<p>SP-ADV</p>	<p>42</p>
		<p>SP-PRCS</p>	<p>43</p>
<p>ECS FX</p>	<p>Basic Operations Advanced Operations PET Injection Process</p>	<p>FX-BSC</p>	<p>44</p>
		<p>FX-ADV</p>	<p>45</p>
		<p>FX-PRCS</p>	<p>46</p>

ECS SP - BASIC OPERATIONS

CODE: SP-BSC DURATION: 3 DAYS

ECS SP

COURSE OBJECTIVE

Provide basic notions on proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators on start up / shut down and machine handling, keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

New operators, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine operations and functional groups (auxiliaries included)
- › Safety systems
- › HMI approach and main functional pages
- › Start up and shut down procedures
- › Changeover operation overview
- › Basic Troubleshooting (warnings, status report)
- › Product Quality Care overview
- › Ordinary & Periodical maintenance

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is about 3 (three) working days.
Suggested lessons timetable is: from 9.00 a.m. to 5.00 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

ECS SP - ADVANCED OPERATIONS

CODE: SP-ADV DURATION: 3 DAYS



COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstanding regarding SIPA's machine functions. Introduce in-depth technical notions partially in the classroom and partially in hands-on activities directly on the equipment.

CONTENTS

- › Machine operation and cycle
- › HMI video pages overview
- › Heating settings
- › Extruder, injection and blowing settings
- › Press clamping force, mold protection, index movement.
- › Conditioning, stretching & blowing system, download
- › Systems overview (electrical, hydraulic, pneumatic)
- › Part data (recipe) management

GOALS

Instruct the team to avoid misunderstandings and correct eventual improper machine usage. Transfer to Operators and Maintenance teams the complete know-how in order to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

REQUIREMENTS

Participants must have attended the BSC-OP level. Mechanical and Electrical basic background are requested. With proved experience achieved while running the machine "on the Job" for at least 3 months.

TARGET AUDIENCE

Machine Operators, Mechanics, Line Supervisors, Maintenance Staff.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days. Suggested lessons timetable is: from 9 a.m. to 5 p.m. Method: 60% Classroom & 40% Practical sessions. The maximum number of participants suggested is 6 (six) people.

ECS SP - PET INJECTION PROCESS

CODE: SP-PRCS DURATION: 3 DAYS



COURSE OBJECTIVE

Advanced Process Training on SIPA machine process, PET treatment and quality of the final product (preforms & bottles quality). Coach technical team to perform optimal product quality, through structured notions and practical test activities customized per client product design. The activities include quality tests, process theory and practical settings.

GOALS

Train the team across the large selection of process technological applications available in SIPA machines for the manufacturing of PET containers, as well as optimize machine performance in order to reduce energy consumption (electrical/air/water).

TARGET AUDIENCE

Operators with basic experience on PET process, Process Line Supervisors, Process Quality Team.

CONTENTS

- › PET resin properties
- › Resin drying management
- › Process setting, extruder and injection
- › Process setting, conditioning, stretching and blowing
- › Process monitoring
- › Product specifications and measurements
- › Product troubleshooting

REQUIREMENTS

Proven previous experience on PET process, attending at the ADV-OP and MAINT SIPA level trainings.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

ECS FX - BASIC OPERATIONS

CODE: FX-BSC DURATION: 3 DAYS



COURSE OBJECTIVE

Provide basic notions on proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators on start up / shut down and machine handling, keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

New operators, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine operations and functional groups (auxiliaries included)
- › Safety systems
- › HMI approach and main functional pages
- › Start up and shut down procedures
- › Changeover operation overview
- › Basic Troubleshooting (warnings, status report)
- › Product Quality Care overview
- › Ordinary & Periodical maintenance

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is about 3 (three) working days.
Suggested lessons timetable is: from 9.00 a.m. to 5.00 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

ECS FX - ADVANCED OPERATIONS

CODE: FX-ADV DURATION: 4 DAYS



COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstanding regarding SIPA's machine functions. Introduce in-depth technical notions partially in the classroom and partially in practical activities directly on the equipment.

CONTENTS

- › Machine operation. Machine cycle, extruder, molds, conveyor
- › HMI main video pages, part data management
- › Heating system, video pages overview
- › Plasticizing, injection and blow process, video pages overview
- › Injection press mold height, clamping force, mold protection, ejection
- › Stretching group and blow press, video pages overview
- › Systems overview (electrical, hydraulic, pneumatic, lubrication)

GOALS

Instruct the team to avoid misunderstandings and correct eventual improper machine usage. Transfer to Operators and Maintenance teams the complete know-how in order to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

REQUIREMENTS

Participants must have attended the BSC-OP level. Mechanical and Electrical basic background are requested. With proven experience achieved while running the machine "on the Job" for at least 3 months.

TARGET AUDIENCE

Machine Operators, Mechanics, Line Supervisors, Maintenance Staff.

PRACTICAL INFORMATION

The standard duration of the course is up to 4 (four) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 60% Classroom & 40% Practical session.
The maximum number of participants suggested is 6 (six) people.

ECS FX - PET INJECTION PROCESS

CODE: FX-PRCS DURATION: 3 DAYS



COURSE OBJECTIVE

Advanced Process Training on SIPA machine process, PET treatment and quality of the final product (preforms & bottles quality). Coach technical team to perform optimal product quality, through structured notions and practical test activities customized per client product design. The activities include quality tests, process theory and practical settings.

GOALS

Train the team across the large selection of process technological applications available in SIPA machines for the manufacturing of PET plastic bottling containers, as well as optimize machine performances in order to reduce energy consumption (electrical/air/water).

TARGET AUDIENCE

Operators with basic experience on PET process, Process Line Supervisors, Process Quality Team.

CONTENTS

- › PET resin properties
- › Resin drying management
- › Process setting, extruder and injection
- › Process setting, conditioning, stretching and blowing
- › Process monitoring
- › Product specifications and measurements
- › Product troubleshooting

REQUIREMENTS

Proved previous experience on PET process, attending at the ADV-OP and MAINT SIPA level trainings.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 50% Classroom & 50% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

FILLING TECHNOLOGY - FILLER

EQUIPMENT	TRAINING PROGRAMS	CODE	PAG
FLEXTRONIC	Basic Operations Advanced Operations Maintenance	FLX-BSC FLX-ADV FLX-MAIN	48 49 50

FLEXTRONIC - BASIC OPERATIONS

CODE: FLX-BSC DURATION: 2 DAYS

FLEXTRONIC

COURSE OBJECTIVE

Provide basic notions on proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators concerning start up / shut down and handle the machine respecting proper knowledge, keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

New operators, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine operations and functional groups (auxiliaries included)
- › Safety systems
- › HMI approach and main functional pages (operator level)
- › Start up and shut down procedures
- › Changeover operation overview
- › Basic Troubleshooting
- › Basic visual inspections

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is 2 (two) working days.
Suggested lessons timetable is: from 9.00 a.m. to 5.00 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

FLEXTRONIC - ADVANCED OPERATIONS

CODE: FLX-ADV DURATION: 3 DAYS

FLEXTRONIC

COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstanding over SIPA's machine functions. Introduce in-depth technical notions both in the classroom and in practical activities directly on the equipment.

GOALS

Instruct the team to avoid misunderstandings and correct eventual improper machine usage. Transfer to Operators and Maintenance teams the complete know-how in order to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

TARGET AUDIENCE

Machine Operators, Line Supervisors.

CONTENTS

- › Machine Operation and Cycle
- › Safety systems and device components
- › Mobile Jog work mode
- › Filling process and HMI operators level
- › Recipe management
- › Sincro process - if is present
- › Periodical checks & cleaning explanations
- › Product preparation unit, P&ID Line explanations
- › Basic troubleshooting (alarms)

REQUIREMENTS

Operators that have attended at the BSC-OP levels training who already achieved previous experience throughout troubleshooting activities.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 60% Classroom & 40% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

FLEXTRONIC - MAINTENANCE

CODE: FLX-MAIN DURATION: 3 DAYS

FLEXTRONIC

COURSE OBJECTIVE

Exclusively aimed at the maintenance teams such as mechanical, electrician and automation technician, explaining the operation of the plant from a technical point of view, focusing on components and parts, lay out, maintenance, setting and components replacing and on troubleshooting procedures.

GOALS

Coach the Electrical Maintenance technicians in order to be able to understand the complex matters of the machine, with detailed explanation on components and parts including logic of operation focusing on the machine's maintenance and components replacement.

TARGET AUDIENCE

Maintenance Staff such as Mechanical, Electrician and Automation Technician.

CONTENTS

- › Electrical Lay out
- › How to read the electrical drawings
- › Structure, network and remote modules
- › Drive connections, motor, encoder, axes
- › Product Preparation Unit, P&ID Line explanations
- › Explanations of maintenance activities
- › Pneumatic System & Automatic Lubrication
- › Basic Troubleshooting (alarms)

REQUIREMENTS

Technicians must have attended the BSC-OP level. Mechanical and Electrical basic background are requested, who already achieved previous experience throughout troubleshooting activities.

PRACTICAL INFORMATION

The standard duration of the course is up to 3 (three) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

PALLETIZING TECHNOLOGY

EQUIPMENT	TRAINING PROGRAMS	CODE	PAG
GENIUS	Basic Operations Advanced Operations Maintenance	PALLG-BSC PALLG-ADV PALLG-MAIN	52 53 54

GENIUS - BASIC OPERATIONS

CODE: PALLG-BSC DURATION: 1 DAY

GENIUS

COURSE OBJECTIVE

Provide the basic notions, regarding proper use and settings of SIPA machine main applications. Achieved by combining the necessary preliminary theoretical notions with the practical activities and explanation directly on the machine.

GOALS

Train the operators concerning start up / shut down and handle the machine respecting proper knowledge, keeping productivity and product quality as specified by contract.

TARGET AUDIENCE

Machine operators, Line Supervisors, Maintenance Staff.

CONTENTS

- › Machine operations and functional groups
- › Safety systems and devices on the machine
- › HMI approach and main functional pages
- › Start up and shut down procedures
- › Changeover operation overview
- › Basic Troubleshooting (warnings, alarms)
- › Product Quality Care overview
- › Basic visual inspections

REQUIREMENTS

Job Experience, Mechanical and Electrical basic background.

PRACTICAL INFORMATION

The standard duration of the course is 1 (one) working day.

Suggested lessons timetable is:
from 9.00 a.m. to 5.00 p.m.

Method: 100% Practical sessions

The maximum number of participants suggested is 6 (six) people.

GENIUS - ADVANCED OPERATIONS

CODE: PALLG-ADV DURATION: 2 DAYS

GENIUS

COURSE OBJECTIVE

Provide advanced notions to correct eventual operators misunderstanding over SIPA's machine functions. Introduce depth technical notions taught in the classroom coupled with practical activities provided directly on the equipment.

GOALS

Instruct the team to avoid misunderstandings and correct eventual improper machine usage.
Transfer to Operators the complete know-how in order to be able to start up, handle, manage and shutdown the machine ensuring high productivity and quality.

TARGET AUDIENCE

Machine Operators, Line Supervisors.

CONTENTS

- › General introduction on the machine groups
- › Introduction to safety systems and devices
- › Introduction on the process
- › Control panel basic operation
- › Basic operation on the machine explanation
- › Introduction to periodical checks
- › Cleaning and maintenance procedure explanation
- › Changeover operation and set up
- › Troubleshooting

REQUIREMENTS

Operators that have attended at the BSC-OP levels training who already achieved previous experience throughout troubleshooting activities.

PRACTICAL INFORMATION

The standard duration of the course is up to 2 (two) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 40% Classroom & 60% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

GENIUS - MAINTENANCE

CODE: PALLG-MAIN DURATION: 2 DAYS

GENIUS

COURSE OBJECTIVE

Class exclusively aimed to personnel involved into maintenance activities as the Maintenance staff able to understand the complex matters of the machine with a deeply explanation on components and parts, focusing on the machine's extraordinary maintenance.

GOALS

Deepening and fixing of the procedures related to the extraordinary maintenance of the machine, vanishing doubts born during their initial work experience on the machine.

TARGET AUDIENCE

Maintenance technicians,
Line Supervisors

CONTENTS

- › General introduction on the machine groups
- › Introduction to safety systems and devices
- › Introduction on the process
- › Control panel basic operation
- › Basic operation on the machine explanation
- › Introduction to periodical checks
- › Homing of encoders for all axes
- › Pneumatic diagram explanations
- › Reading of electrical diagram
- › Spare parts orders

REQUIREMENTS

Technicians that have a good knowledge of mechanical and/or electrical principles. Have experience as maintenance worker.

PRACTICAL INFORMATION

The standard duration of the course is up to 2 (two) working days.
Suggested lessons timetable is: from 9 a.m. to 5 p.m.
Method: 30% Classroom & 70% Practical sessions.
The maximum number of participants suggested is 6 (six) people.

SIPA TRAINING CONTACTS WORLDWIDE

SIPA has a worldwide coverage, all the trainers are educated at SIPA's head office, which provides a high level of know-how and an all-round, universal preparation. Our experienced trainers are available to our customers for tailored courses on the customer's own premises, in the local language and without the need for interpreters. Please contact our local offices managers for detailed information.

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