

TRAINING CATALOGUE 2016



About us

For **over 90 years**, LOVATO Electric has been designing and manufacturing low voltage electrical devices for industrial applications. Founded in 1922 in Bergamo, Italy, **LOVATO Electric** is a privately owned company, and has been managed by the same family of entrepreneurs for 4 generations. Among the first Italian companies to achieve ISO 9001 certification in 1992, LOVATO Electric has a range of over 10,000 products that comply with the strictest requirements of international standards. Motor protection circuit breakers, contactors, pushbuttons, switch disconnectors, limit switches, digital multimeters, energy meters, soft starters, AC motor drives, automatic power factor controllers and engine and generator controllers are just some of the products designed and built by LOVATO Electric. To provide competitive products and services in the industrial automation and energy management fields is our company's "mission". Our 13 branches abroad and a network of over 90 importers ensure the availability of Lovato Electric products in more than 100 countries all over the world.



The Academy

To meet the growing demand of advance and dedicated technical trainings for professional people involved in Automation and Energy Management field, Lovato Electric established in its headquarters in Gorle (Bergamo) "**LOVATO Electric Academy**".

Our approach

LOVATO Electric Academy will be able to train customers thanks to the support of last generation of audio visual equipment and interactive training desks fully equipped with working products, enabling real programming and simulation of their functions. High technology products requiring an higher level of technical knowledge, so our sales and technical staff, our sales affiliates, our customers and end customers of LOVATO Electric products will find LOVATO Electric Academy the right place to increase their technical skills. LOVATO Electric Academy has been developed on an area of 400 m², it is composed by twenty-four training desks, one products exhibition area and a relax area.

How to join a course

Fill in the following form : [Link](#)

For others informations: academy@lovatoelectric.com

GENERAL TRAINING



Overview

LOVATO Electric offers a range of over 10,000 products in the industrial automation and energy management fields.

Catalogue is divided in 5 product groups: Motor control and protection, Control and signalling, Circuit protection and isolation, Automation and control and Energy Management.

In order to familiarize with the range of products, we offer the possibility to attend a two days course, which also gives the opportunity to visit the factory.

Course objectives

This course aims to familiarize with the main products available on Lovato Electric catalogue (range, selling points, applications), giving also the opportunity to visit the factory, appreciating our spirit and way of working.

Who Should Attend

Commercial and technical staff of distributors of Lovato Electric which are dealing for the first time with the product range of Lovato Electric final customers.

Prerequisites

None.

Contents

- ☐ company presentation and tour of the factory;
- ☐ motor control and protection;
- ☐ control and signalling;
- ☐ circuit protection and isolation ;
- ☐ automation and control;
- ☐ energy management ;
- ☐ practical exercises with the catalogue.

Language: English

Scheduled date

08-09 February 2016
28-29 November 2016

Duration

16 hours (2 days)
from 08:30 to 12:30 and from
13:30 to 17:30

Location

Lovato Electric SpA,
Via Don E. Mazza, 12
24020 Gorle (BG) ITALY

Price

Free of charge. Board and
lodging are included.

Products shown

The most important products in
the catalogue.

Course Code: LV101

SOLUTIONS FOR POWER FACTOR CORRECTION



Overview

Manufacturing capacitor banks which are more efficient, more reliable and easily maintained is becoming more and more a necessity for capacitor banks manufacturers and panel builders. The latest generation of power factor controllers of Lovato Electric is including advanced functions, protections, and communication capabilities, which are presented in detail and simulated during the Power Factor Correction training course.

Course objectives

This course will present the DCRL series and DCRG series power factor controllers and provide in-depth technical training on them using our interactive desks. You'll learn how it's easy to setup the controllers parameters for monitoring, protecting and maintaining capacitor banks, using Xpress setup software and Sam1 App. Special focus is given to advanced functions like Master-Slave connections, capacitors protection and controller communication.

Who Should Attend

Technical staff that deals with the design, manufacturing and installation of capacitor banks.

Prerequisites

Knowledge of the technical requirements in the power factor correction field.

Contents

- ☐ main features of Lovato PFC controllers;
- ☐ advanced programming;
- ☐ installation and wiring tips;
- ☐ master and slave settings;
- ☐ practical exercises.

Language: English

Scheduled date

26 October 2016

Duration

8 hours from 08:30 to 12:30
and from 13:30 to 17:30

Location

Lovato Electric SpA,
Via Don E. Mazza, 12
24020 Gorle (BG) ITALY

Price

Free of charge. Board and lodging are included.

Products shown

- power factor controllers;
- thyristor modules;
- setup software and APP.

Course Code: LV102

MOTOR STARTING AND PROTECTION



Overview

Motor starting and protection is a very important topic in industrial and even commercial applications. In fact pumps, ventilators, lifts and any other machine require an electrical motor to work. According to the application, different motor starting solutions can be chosen, such as electromechanical starters or AC Drives or Soft Starters. As a specialist in motor starting and protection Lovato Electric is able to provide the right product for any kind of application.

Course objectives

At the end of the course the participants will be able to choose the best way to start, control and protect an electric motor and will be informed about the main technical advantages offered by the solutions of Lovato Electric.

Who Should Attend

Commercial staff who wants to understand the benefits of the Lovato Electric solution for the starting, the control and the protection of electric motors.

Prerequisites

Basic knowledge of electric equipment.

Contents

- ☐ the motor starting principles and typical requirements;
- ☐ the Lovato solutions;
- ☐ parameters setting (PID, curves, motor speed, torque,...);
- ☐ installation, maintenance and wiring tips;
- ☐ best practices;
- ☐ practical exercises.

Language: English

Scheduled date

12-13 September 2016

Duration

16 hours (2 days)
from 08:30 to 12:30 and from
13:30 to 17:30

Location

Lovato Electric SpA,
Via Don E. Mazza, 12
24020 Gorle (BG) ITALY

Price

Free of charge. Board and lodging are included.

Products shown

- motor protection circuit breakers;
- contactors;
- thermal overload relays;
- electromechanical starters;
- soft starters;
- AC motor drives.

Course Code: LV103

SOLUTIONS FOR ENGINES AND GENERATORS



Overview

The brain of a generator is certainly the controller.

Programming the controller in the most accurate way, is a crucial element to guarantee the perfect operation of the engines and generators either in stand alone, AMF or parallel operation. Over the years the controllers of Lovato Electric enhanced their capabilities in term of functions, protection and remote supervision, therefore getting trained on their usage is highly recommended to get the outmost of them.

Course objectives

The attendants will learn how to configure an engine and generator controller for stand-alone, AMF and in particular paralleling applications, practicing on interactive desks and on real diesel generators.

Who Should Attend

Technical staff that deals with the design, the manufacturing and the installation of engines and generators.

Prerequisites

Knowledge of the technical requirements in the generating sets field.

Contents

- ☐ system analysis;
- ☐ main menus settings;
- ☐ advanced functions: PID, load sharing, power management;
- ☐ paralleling mode;
- ☐ supervision and remote access connection;
- ☐ practical exercises.

Language: English

Scheduled date

11 May 2016

Duration

8 hours from 08:30 to 12:30
and from 13:30 to 17:30

Location

Lovato Electric SpA,
Via Don E. Mazza, 12
24020 Gorle (BG) ITALY

Price

Free of charge. Board and
lodging are included.

Products shown

- engine and generator controllers;
- battery chargers;
- setup software and APP.

Course Code: LV104

ENERGY METERING WITH DIGITAL INSTRUMENTS



Overview

In a world in which energy must be monitored and controlled in the most efficient way possible, LOVATO Electric presents the series of digital metering instruments for single and three-phase systems.

Course objectives

This course will present the digital meters DMG series, the energy meters DME series and relevant accessories (expansion modules, setup software and App, etc) and provide in-depth technical training on them using interactive desks.

Who Should Attend

Commercial staff with technical sales approach and technical staff involved in the supply of a complete solution for the energy monitoring.

Prerequisites

Knowledge of fundamentals of electricity and communication on industrial bus.

Contents

- ☐ why energy metering is a very important topic;
- ☐ the essential requirements of energy metering and management;
- ☐ how to meter the consumption: the typical architecture of an industrial metering system;
- ☐ how to set the main parameters in our digital instruments;
- ☐ best practices;
- ☐ practical exercises.

Language: English

Scheduled date

21 March 2016

09 May 2016

24 October 2016

Duration

8 hours from 08:30 to 12:30
and from 13:30 to 17:30

Location

Lovato Electric SpA,
Via Don E. Mazza, 12
24020 Gorle (BG) ITALY

Price

Free of charge. Board and
lodging are included.

Products shown

- digital metering instruments;
- expansion modules.

Course Code: LV105

ENERGY MANAGEMENT AND SUPERVISION



Overview

An important competitive advantage that can set apart a company on the market today is its ability to intelligently manage its energy resources to achieve significant benefits in terms of savings on operating costs while respecting the surrounding environment. This can be achieved by constantly monitoring and subsequently analysing the data, so as to plan actions to reduce energy consumption and to ensure, the availability of an emergency power source if needed.

Course objectives

This course aims to give to the attendants the fundamental concepts of energy management solutions. We will present the Synergy Energy Management Software and provide in-depth technical training on it. This course will also deliver to producers of genset and producers of capacitor banks the know how to offer their customer a remote maintenance service.

Who Should Attend

Commercial staff with technical sales approach and technical staff involved in the supply of a complete solution for the energy monitoring. Technical staff that deals with capacitor banks or genset manufacturing and installation.

Prerequisites

Knowledge of fundamentals of electricity and computer networks concepts.

Contents

- ☐ the consumption monitoring and data collection: hw and sw solutions;
- ☐ Synergy sw configuration: mains parameters and features;
- ☐ best practices;
- ☐ how to choose correctly the best sw solution for your applications.

Language: English

Scheduled date

22 March 2016

10 May 2016

25 October 2016

Duration

8 hours from 08:30 to 12:30
and from 13:30 to 17:30

Location

Lovato Electric SpA,
Via Don E. Mazza, 12
24020 Gorle (BG) ITALY

Price

Free of charge. Board and
lodging are included.

Products shown

- Synergy Energy Management Software.

Course Code: LV106

SOLUTIONS FOR AUTOMATIC TRANSFER SWITCHING



Overview

The solutions offered from Lovato Electric for ATS applications are ranging from basic 2 sources controllers, up to advance 3 sources, 5 breakers controllers with closed transition. Learning the functionality and the programming of Lovato Electric ATL controllers enable the panel builders manufacturing reliable, cost effective and safe automatic transfer switch systems.

Course objectives

The course will give to the attendants the right knowledge and competences to manage very complex ATS applications with up to three sources, five breakers, with closed transition.

Who Should Attend

Technical staff that deals with power centers, building automation and generating sets.

Prerequisites

Knowledge of the fundamentals of electricity and of typical requirements in the electrical power distribution.

Contents

- ☐ operational characteristics;
- ☐ programmable functions;
- ☐ transfer equipment control capability;
- ☐ auxiliary supply and measurement inputs;
- ☐ installation tips;
- ☐ expansion modules.

Language: English

Scheduled date

23 March 2016

Duration

8 hours from 08:30 to 12:30
and from 13:30 to 17:30

Location

Lovato Electric SpA,
Via Don E. Mazza, 12
24020 Gorle (BG) ITALY

Price

Free of charge. Board and
lodging are included.

Products shown

- Automatic Transfer Switch Controllers;
- Setup software and APP.

Course Code: LV107

SCHEDULED WEBINARS



Overview

Webinar consists in 45 minutes on line training session where Lovato Electric Product Specialist presents a new product added to Lovato Electric range.

Who Should Attend

Technical and commercial staff of Lovato Electric sales network and end customers interested in the product.

Advantages

- ☐ Speed and quality of the training: getting a live presentation of a new product immediately after its launch, from Lovato Electric Product Specialist
- ☐ Convenient timing: two sessions (morning and afternoon) in the webinar day in order to accommodate all the time zones of the world
- ☐ Simple to participate: you just need internet connection and headphones or speaker connected to PC/Tablet/Smartphone. No plug in or additional software or telephone connection is requested
- ☐ Wide Audience: possibility to share the webinar link within your staff or your final customers
- ☐ Q & A space: possibility to submit to the Product Specialist your questions via chat and get an immediate answer

Contents

We handle different topics during the year.

Language: English

Scheduled date

Webinars don't follow a scheduled calendar. Two sessions (morning and afternoon) in the webinar day. The sales partner will receive a newsletter announcing the date.

Duration

The session lasts 45 minutes.

Price

Free of charge.

Course Code: LV107

NEW

"TAILOR MADE" WEBINARS



Overview

Tailor made Webinar consists in 45 minutes on line training session organized "on demand" by the customer. During tailor made webinars Lovato Electric Product Specialist presents a product chosen by the customer, focusing the presentation on topics previously agreed with the customer

Who Should Attend

Technical and commercial staff of Lovato Electric sales network and end customers interested in the product..

Advantages

- ☐ possibility to choose the topic you want;
- ☐ speed and quality of the training: getting a live presentation of a new product immediately after its launch, from Lovato Electric Product Specialist;
- ☐ simple to participate: you just need internet connection and headphones or speaker connected to PC/Tablet/Smartphone. No plug in or additional software or telephone connection is requested;
- ☐ wide Audience: possibility to share the webinar link within your staff or your final customers;
- ☐ Q & A space: possibility to submit to the Product Specialist your questions via chat and get an immediate answer.

Contents

You can choose the topic you want.

Language: English

Scheduled date

Date and time to be agreed with Lovato Electric Training Manager (see contact details below).

Duration

Each session lasts 45 minutes. The most suitable number of sessions according to the required topic is to be agreed with Lovato Electric Training Manager (see contact details below).

Price

Contact Lovato Electric Training Manager for an offer:
academy@LovatoElectric.com
Tel. +39 035 4282111

Course Code: LV108

"TAILOR MADE" COURSES



Overview

Sometimes could happens that somebody miss the training date for any reason or simply wants a training not included in this training cataolgue. A tailor made course is the right solution!

Who Should Attend

Technical and commercial staff of Lovato Electric sales network.

Advantages

- ☐ possibility to choose the topic you want;
- ☐ tailor made training: you can suggest us which part is more important for you and if you needs also to do practical exercises or not;
- ☐ simple to organize: contact Lovato Electric Training Manager and agree a date and define a program;
- ☐ product Specialists at full availability for the whole duration of the training.

Contents

You can choose the topic you want.

Language: English

Scheduled date

Date and time to be agreed with Lovato Electric Training Manager (see contact details below).

Duration

The number of days according to the required topic is to be agreed with Lovato Electric Training Manager (see contact details below).

Price

Contact Lovato ELeetric Training Manager for an offer:

academy@LovatoElectric.com

Tel. +39 035 4282111

Course Code: LV109

Notes

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