Industrial automation training from Mitsubishi Electric reflects software advances in control systems and HMI screen design

The 2016 programme of Training Courses from Mitsubishi Electric has been released. It features a new course in GX Works3 and an updated course in GOT 2000, alongside many of the established basic and advanced learning opportunities for professional engineers.

Recognising the importance of customers needing to keep abreast of fast-moving automation technology, Mitsubishi Electric has consistently played a leading role in providing training for industries using automation.

The company offers a schedule of up-to-date, high quality training courses from its team of professional engineers, covering wide ranges of experience and market sectors. These courses provide up-to-date knowledge for operational staff in key positions in all spheres of the manufacturing and process industries in a format to suit everyone. They are backed up by the Mitsubishi Electric Customer Technology Centre (CTC) which enables customers to see how products perform in a dedicated environment.

In 2016, the established programme of courses has been augmented by new or updated offerings in GX Works3, GOT 2000, simple motion and robots. In addition to basic courses, the schedule includes several advanced courses, designed for people with previous Mitsubishi Electric PLC programming experience who want to learn about new hardware and software developments.

GX Works3 is the latest generation of programming and maintenance software offered by Mitsubishi Electric, and is specifically designed for the MELSEC iQ-R Series control system. It includes many new features and technologies to ensure a trouble-free engineering environment. The training course for GX Works3 is a completely new course, and covers the iQ-R & iQ-F (FX5) PLCs and the new iQ-R & iQ-F (FX5) training rigs. It is based on training manual version 1.12.

GOT 2000 (GOT stands for Graphic Operation Terminal) is screen design software enabling functional elements, such as switches and lamps, graphics, text and alarms, to be displayed and operated on a monitor screen or touch-panel HMI. Since the components are created using software, the number of components attached to the operation panel as hardware can be reduced and the panel itself can be downsized. Wiring between components inside the operation panel is replaced by software and reduced.

The updated training course for GOT 2000 features several new sections, including Libraries & Templates, basic details of the newer hardware products and the new GOT training rigs. Based on training manual version 2.1, the course has been redesigned so that it can be run entirely in simulation mode if required.

At a more basic level, the PLC introduction course is an introduction to all current Mitsubishi Electric PLC products (FX, Q, & L Series). Using dedicated FX, Q, and L PLC simulator system hardware together with GX Works2 programming software, this course explains the basic hardware structure of all current Mitsubishi Electric PLC products. It introduces the first basic steps of PLC programming using the GX Works2 PLC programming software in “simple mode” with labels. At the end of this course delegates are expected to be able to create and understand basic PLC programs. Delegates need no previous experience with Mitsubishi Electric PLCs, although some knowledge of other manufacturers’ products would be useful. An understanding of basic electrical principles and number bases would also be an advantage.

The PLC advanced programming course, is based around the GX Developer software, the course will run through the advanced features of all current
Mitsubishi Electric PLC products. Concentrating on the applied instruction set, delegates will be able to use the mathematical functions, displaying results and interfacing with analogue units. Delegates are given many practical exercises to solve and need previous experience with either Mitsubishi Electric or other manufacturers’ PLC products.

Other courses cover PLC maintenance, networking training courses in CC-Link, Profinet, and Ethernet open networks and how to apply them to real world applications. Software training courses cover IEC PLC Programming, the MAPS SCADA system and iQ Works. Courses are also offered on inverters (basic and advanced) and servo/positioning.

Most courses are held at Mitsubishi Electric’s Head Office in Hatfield, or at one of the company’s Regional Automation Centres (Wakefield, Yorks or Livingston, Scotland).

Mitsubishi Electric also offers the option of running tailored courses prepared and presented by its professional engineers, focusing on specific customer requirements. Application-specific and customer-specific courses can be conducted on-site, or at the premises of local Mitsubishi Electric partners.

In parallel with its programme of training courses, Mitsubishi Electric also runs the Mitsubishi Certified Engineer programme, aimed principally at the company’s Systems Integrator network. It is designed to generate, and recognise competent engineers, certified in Mitsubishi Electric’s Automation Systems equipment. Certified Engineers will have proven technical competence, across a wide range of Mitsubishi Electric equipment. To obtain certification, candidates must satisfy both theoretical and practical test elements.

Further information on all Mitsubishi Electric training is available at https://gb3a.mitsubishielectric.com/fa/en/service/training. Engineers can register and login to obtain full information and receive regular updates. Registered visitors can also download the latest course schedule.

About Mitsubishi Electric

With over 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, water and waste water, transportation and building equipment.

With around 124,000 employees the company recorded consolidated group sales of 39.3 billion US Dollar* in the fiscal year ended March 31, 2014.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe, Industrial Automation – UK Branch is located in Hatfield, United Kingdom. It is a part of the European Factory Automation Business Group based in Ratingen, Germany which in turn is part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of Industrial Automation – UK Branch is to manage sales, service and support across its network of local branches and distributors throughout United Kingdom.

Further Information:

Website: gb3a.mitsubishielectric.com/
Website: www.mitsubishielectric.com/
Email: automation@meuk.mee.com
Facebook: www.facebook.com/MEUKAutomation
Twitter: twitter.com/MEUKAutomation
YouTube: youtube.com/user/MitsubishiFAEU

Editor Contact
DMA Europa Ltd: Bob Dobson
Tel: +44 (0)1798 861677
Web: www.dmaeuropa.com
Email: bob@bobdobson.com

Reader Contact
Mitsubishi Electric Europe B.V. Automation Systems Division: Chris Evans, Marketing & Operations Group Manager
Tel: +44 (0)1707 288769
Fax: +44 (0) 1707 278695
Web: gb3a.mitsubishielectric.com/
Email: automation@meuk.mee.com