

### Customers Training Calendar for 2021

The Training Schedule of our courses for 2021 in Asia are as following:

S/N	Courses	Date	Days	Location	Price (KRW)
1.	Mark VIe Control System Maintenance	22 – 26 Feb. 2021	5	Pangyo, Korea	KRW <del>₩</del> 3,900,000
2.	Mark VIe Control System Maintenance	10 – 14 May 2021	5	Sydney, AU	AUD \$5,000
3.	Mark VIe Control System Maintenance	26 – 30 Jul. 2021	5	Pangyo, Korea	KRW <del>₩</del> 3,900,000
4.	Mark VIe Control System Maintenance	13 – 17 Sep. 2021	5	Singapore	USD \$3,200
5.	Mark VIe Control System Maintenance	15 – 19 Nov. 2021	5	Pangyo, Korea	KRW <del>₩</del> 3,900,000

#### **Note**

- Please refer to the course synopsis attached & ensure that the course pre-requisites, where applicable, are compiled with.
- BH Digital Solutions reserves the right to postpone or cancel any of the courses, should need arises.
- Priority will be given to those who register early; however, acceptance of the registration will be at the discretion of BH Digital Solutions. Registration forms should reach BH Digital Solutions regional office not later than ONE MONTH before the course commencement.

Please send your course registration, to us, on the attached form, either by email or fax.

Should you have any queries, you could always write to us on the following email address [Yanwei.sun@bakerhughes.com](mailto:Yanwei.sun@bakerhughes.com).

Thank you.



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## Course Registration Form

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Company: \_\_\_\_\_

Address (Billing Address)\*: \_\_\_\_\_

Phone\* : \_\_\_\_\_ Email\*: \_\_\_\_\_

Course Title: \_\_\_\_\_

Course Date : \_\_\_\_\_ Location : \_\_\_\_\_

Name and Designation of your Manager: \_\_\_\_\_

Authorized Signature & Co. Stamp: \_\_\_\_\_

### Important Notes:

#### 1. Registration

Registrations can be made via email, but they will only be confirmed upon receipt of registration form and payment made 6 weeks in advance.

#### 2. Withdrawal

Four (4) weeks before course commences - Full refund

Two (2) weeks before course commences - Refund subject to 25% cancellation fee

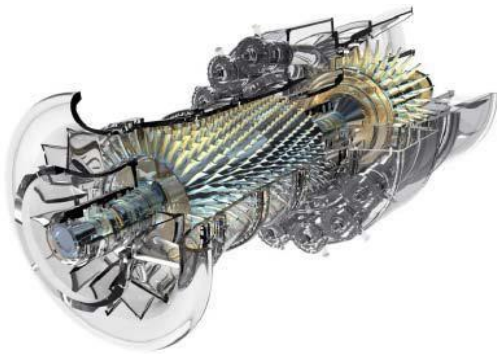
Less than one (1) week before course commences - No refund (Replacement is welcome)

#### 3. Cancellation/Postponement

BH Digital Solutions reserves the right to cancel or postpone the course due to any unforeseen circumstances. Cancellation will be notified two weeks prior to course commencement.

## COURSES SYNOPSIS

### Mark VIe Control System Maintenance



This program is intended for control technicians whose site has a Mark VIe Control system. The training will familiarize trainees with the hardware and software components and provides detailed knowledge to troubleshoot and maintain the Mark VIe control system and associated equipment.

Modular and robust, this course includes training material derived from actual Mark VIe installed systems. Training is performed with short lessons followed by labs. The hands-on labs are performed on HMI computer images where special software has been developed to simulate Mark VIe hardware and a turbine. The labs are progressively challenging and assist the trainees to learn the basics and build up to intermediate troubleshooting skills and the ability to confidently diagnose and troubleshoot alarms.

NOTE: This course is instructed with a generic Gas Turbine HMI and control simulation appropriate for training Gas/Steam Mark VIe control systems. Several labs contain optional exercises where trainees are given the opportunity to examine their own software in relation to the learning objective. When available, the instructor will prepare a virtual HMI for use during the course. The virtual HMI contains a copy of the sites control software and screens taken from the Master and Site folders at the site's HMI server.

## **Course Objectives:**

The objective of this course is to train the participant(s) to become familiar and comfortable using the Mark VIe hardware and software.

## **The Participants will learn:**

- Major components of the Mark VIe system
- How to start the HMI screen viewing software and navigate the screens
- Terminology used within the ToolboxST software
- How to start the software and use the on-line mode to view live values in the hardware
- Software structure, terminology, and view live values in the software
- Finder tool and its uses for troubleshooting
- Familiarization of the Trender Tool
- How to use the Trender Tool to view historical data, and events (trips, alarms, SOEs)
- How to Troubleshoot basic software blocks and adjusting live values
- How Finder, Trender, Watch Windows, and Online Modifications are used together for troubleshooting & maintenance functions.
- How to view alarms using CIMPLICITY
- How to trace an alarm to its origin in the ToolboxST software
- How to use the Trender Tool in conjunction with the Finder Tool and troubleshoot system problems
- Procedures and precautions when placing a Terminal Board and I/O Module
- Procedures and precautions for replacing a Controller
- PDM components and review the procedures and precautions when replacing
- Servo calibration procedure in the software and review documentation GEH-6700 Chapter 13 (p347) & Control Specification (Chapter 5)

- How to move a hardwired point
- View use GE provided documentation for troubleshooting
- How to disable or enable a digital or analog signal
- The software structure (Programs, User Blocks, and Function Blocks)
- How to add software (Programs/User Blocks)
- An introduction to making software changes

**Course Length:** 5 days