



Lisburn, United Kingdom

# Monitoring and Diagnostics Training Guide

All the information you need in one place to make an informed training selection.



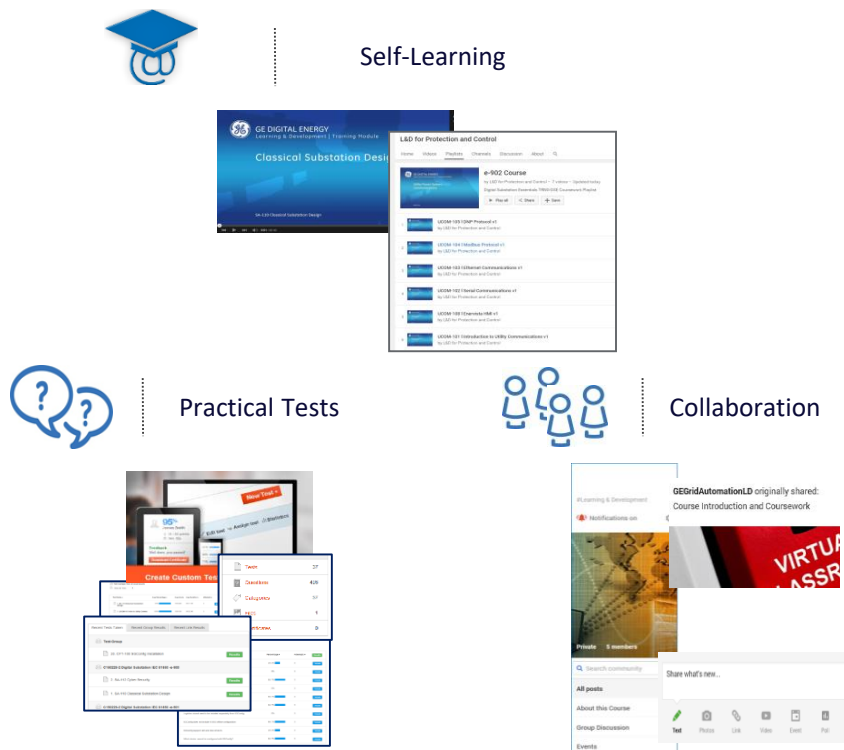
Learning programs, blend together self-learning, classroom sessions and face to face workshops. All elements have practical assessment testing. To attend it is recommended you have completed all the pre-course reading needed.

## Course Structure



## Course Tools

All used in classroom sessions



## Key Attributes

The hands-on workshops build on the content learned in the pre-course self-learning and move into system integration of GE products to create customer solution.

The students will practice the basic configurations of the monitors in the first day, then in the second day will create one bespoke setup to use the knowledges learnt in previous exercises.

At the end of each course the student will have a greater understanding of the configuration and operation of the Kelman DGA monitors. Application Labs will allow the students to apply and hone their skills on these monitors.

All courses start with self-learning ,classroom technology sessions and then a hands-on face to face workshop.

Throughout the course students are encouraged to collaborate with the instructor and their peers through active participation, Q&A and sharing lessons learned.

Its all about learning, it is much more than a training course!

Course Code | TRNG-MULU - Kelman Multigas Operator

### who should attend

All customers that wish to experience the most from their dissolved gas analyzer. Fully understand the features, capabilities & equipment care for this vital substation asset.

### learning outcome

Build a knowledge and understanding of Kelman DGA Online monitor hardware, software and configuration and its application within the digital substation.

### prerequisites

No requirements.

### workshop hardware needs

All equipment is provided as part of the workshop if conducted at OEM.

### what's covered

- Hardware
- Operating software
- Scheduled & manual oil sampling
- I/O Configuration
- Error codes & solutions
- Communications
- Equipment care


### learning contact hours

• E-learn:	NA
• Workshop:	16 hours
• Testing:	NA
• <b>Total :</b>	<b>16 hours</b>

Learning contact hours quoted are our estimate of time to complete, actual is very much dependent on students prior knowledge.

### timeline note 1

- Registration Deadline
- 4 weeks prior to workshop
- course notices sent out
- 3 weeks prior to workshop
- Workshop
- week zero
- Feedback
- 4 weeks after workshop



e-learning playlist | TBA

Module	Name	Module	Name
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**note 1:** timeline is generic may vary dependent on scheduling logistics

## Prerequisites

Students **should** read through the equipment operating manuals to familiarize themselves with the technology & equipment terminology.

## Learning Objective

On completion of the Practical Workshop students should be able to identify, configure, integrate and operate Kelman online monitors; where they can then hone their skills through further application.

In addition to the exercise each module comes with a practical assessment test.



## legend

practical  
exercise

classroom  
taught

## Course Note

Workshop activities are a mix of video based, written and demonstration instruction, followed by student hands on activities.

The detailed content of each module is introduced on the proceeding slides.

Learning content is provided via a Box Cloud downloads.

## Course Code | TRNG-TXOP - Portable DGA Operator

### who should attend

All customers that wish to enhance their operating skills, knowledge & utilization of their Portable Dissolved Gas Analyzer.

### learning outcome

Build a knowledge and understanding of the Portable DGA hardware, software and configuration and its application within the digital substation.

Application Labs will give the students an opportunity to apply their knowledge.

### prerequisites

No requirements.

### workshop hardware needs

All equipment is provided as part of the workshop if conducted at OEM.

### what's covered

- Equipment setup
- Measurement procedure
- System Checks
- Diagnostic Tools
- Database configuration
- PC connectivity
- Oil sampling

### learning contact hours

- Workshop: 14 hours
- Testing: 2 hours
- **Total : 16 hours**

Learning contact hours quoted are our estimate of time to complete, actual is very much dependent on students prior knowledge.

### timeline note 1

Registration Deadline

4 weeks prior to workshop

course notices sent out

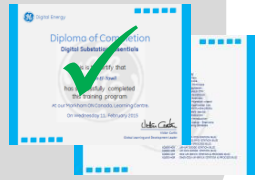
3 weeks prior to workshop

Workshop

week zero

Feedback

4 weeks after workshop



## e-learning playlist | TBA

Module	Name	Module	Name
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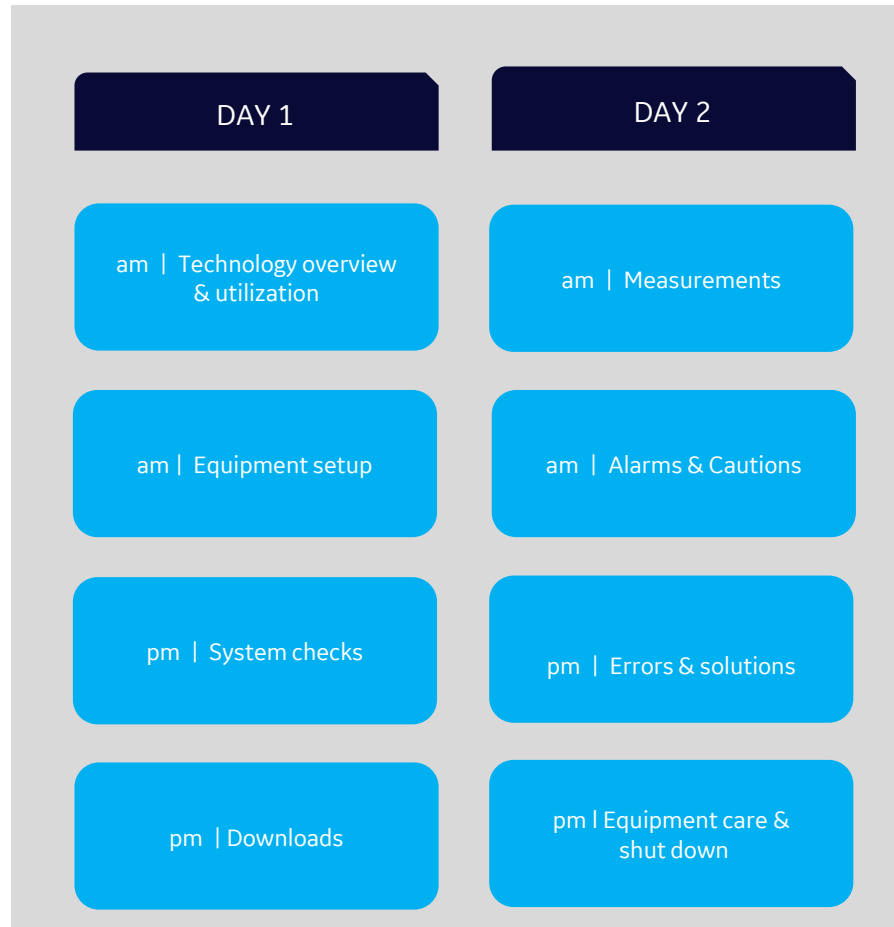
## Prerequisites

Students **should** read through the equipment operating manuals to familiarize themselves with the technology & equipment terminology.

## Learning Objective

On completion of the Practical Workshop students should be able to identify, configure, integrate and operate Kelman Portable DGA monitors; where they can then hone their skills through further application.

In addition to the exercise each module comes with a practical assessment test.



## legend

practical exercise

classroom taught

## Course Note

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## Course Code | TRNG-HYI - Hydran Singlegas Installation

### who should attend

All customers that wish to enhance their operating skills, knowledge & utilization of their Singlegas online Dissolved Gas Analyzer.

### learning outcome

Build a knowledge and understanding of the online Singlegas DGA hardware, software and configuration and its application within the digital substation.

Application Labs will give the students an opportunity to apply their knowledge.

### prerequisites

No requirements.

### workshop hardware needs

All equipment is provided as part of the workshop if conducted at OEM.

### what's covered

- Equipment setup
- Measurement procedure
- System Checks
- Diagnostic Tools
- Database configuration
- PC connectivity
- Manual oil sampling

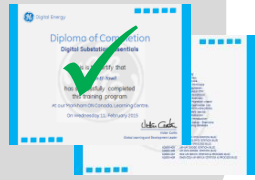
### learning contact hours

- Workshop: 14 hours
- Testing: 2 hours
- **Total : 16 hours**

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### timeline note 1

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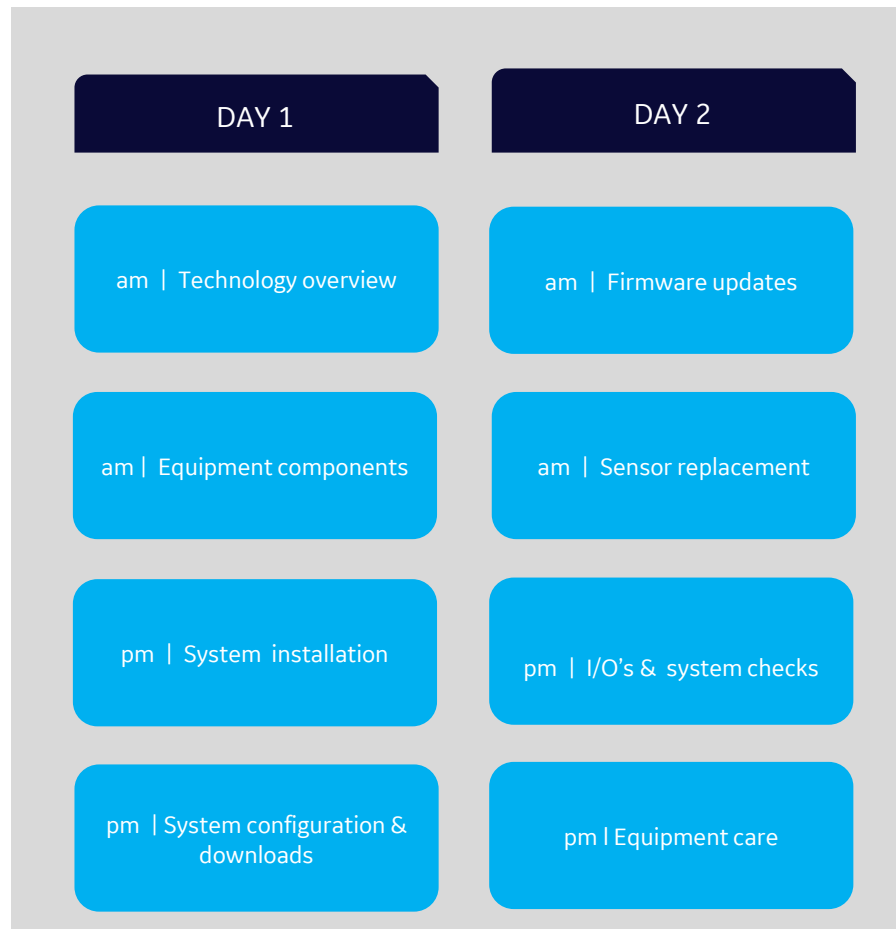
## Prerequisites

Students **should** read through the equipment operating manuals to familiarize themselves with the technology & equipment terminology.

## Learning Objective

On completion of the Practical Workshop students should be able to identify, configure, integrate and operate Kelman Singlegas DGA monitors; where they can then hone their skills through further application.

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## legend

practical exercise

classroom taught

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