



Bilbao (Spain) Learning Center Training Course Guide 2021

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



Welcome to Learning & Development

Lets Start With Some Useful Information

What is being offered and when? Visit our website.

It is a useful place to find more information about our training offerings including other course guides etc. You can also download our Curriculum Guide from there.

<http://www.gegridsolutions.com/multilin/support/training/>

Need to access free learning videos? Visit our YouTube channels.

Did you know that we have a dedicated You Tube channel where you can find e-learning training videos at no cost. Here you can find how2 videos, training webinars and training course modules for self learning.



<https://www.youtube.com/c/LDforProtectionandControl>

Contact Us

Need more information, have questions about our offerings, want to follow up with us on any training related issue, then contact us through our training email.

services.bilbao@ge.com

+34 94 485 88 60

What type of training is offered by GE?

- no cost training videos are available on our youtube channels
- standard schedule courses are available to book on the online store
- on demand courses at your place or ours, email: services.bilbao@ge.com

Where do I find resource info? Visit our resources page.

Did you know here you can find a multitude of useful resources to assist your learning about our products services and solutions.

<http://www.gegridsolutions.com/resources.htm>



Grid Learning Center's - *Discover the Difference*

Protection & Control

Course Code | TRNG-GEN-BIO - Generation Essentials

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

who should attend

Engineering Staff within electrical utility, industrials & system integrators who need to design protection and control systems using GE products in non- 61850 and 61850 configurations.

learning outcome

Build a knowledge and understanding of the UR hardware, software and configuration and its application within the smart grid.

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

prerequisites

Fundamentals of Modern Protection Relaying is highly recommended or with certain UR working experiences.

workshop hardware needs

All equipment is provided as part of the workshop.

what's covered

- Configuration of G60 generator protection relays.
- Diagnostic Tools
- I/O Configuration
- Protection Elements
- FlexLogic
- IEC61850

learning contact hours

- Workshop: 32 hours
- Total: 32 hours

timeline note 1

Registration Deadline

4 weeks prior to workshop

course notices sent out

3 weeks prior to workshop

e-learning

To be reviewed prior to workshop

Workshop

week zero

e-learning playlist | Generator Protection

<https://www.youtube.com/watch?v=coU24s0ZHEU&t=1s>

Module	Name
FMPR-104	Generator Protection v1

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, assemble, integrate and operate configure UR G60 relay where they can then hone their skills through further applications.

MONDAY	TUESDAY	WEDNESDAY
AM Hardware Setup	AM Protection and Controls Function	AM Hands-on lab – secondary injection tests of protection functions
PM Software Interface	AM Events & Oscillography	AM SLD Editor
PM Protection and Control Functions	PM Hands-on lab – secondary injection tests of protection functions	PM 61850 configuration
		PM hands-on lab - 61850 Goose exchange

Course Note

Workshop activities are a mix of presentation based 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 USB at the beginning of the training.