GhIE/CMT/PGC/10/22

April 22, 2022

«Name»

«Organization»

Dear Sir/Madam,

**4-DAY NON-RESIDENTIAL TRAINNG ON PLC LEVEL 1**

The Ghana Institution of Engineering (GhIE) will hold a two-day training on **“PLC Level 1”** at the Engineers Centre, 13 Continental Road, Roman Ridge, Accra from **May 24 – 27, 2022.** Certificates shall be awarded.

**Course Overview**

This course covers various components of PLCs and equips the student with what it takes to maintain PLCs in general.

Students will be introduced to RSLogix 500 – software for programming some Allen Bradley Range of PLCs (Micrologix and SLC). The course is a prerequisite for students to proceed to undertake more advanced PLC training.

**Course Objectives:**

|  |  |  |
| --- | --- | --- |
| * Identify and know the functions of the various components of the PLC. Know the types of PLCs available
 | * Understand how PLCs work and their operation modes
 | * Understand the PLC memory structure
 |
| * Understand Addressing
 | * Know Input and Output devices
 | * Write, edit, simulate and monitor PLC programs Configure communication between the PLC and the PC Download and Upload PLC Programs.
 |
| * Choose a PLC Hardware
 | * Know the Applications of PLCs
 |  |

**Course Outline:**

|  |  |  |
| --- | --- | --- |
| * Introduction
 | * Components of PLCs
 | * PLC Types
 |
| * Input / Output Devices
 | * PLC Operation Cycle
 | * PLC Operation Modes
 |
| * PLC Application Consideration
 | * PLC Applications
 | * Advantages of PLCs
 |
| * Programming PLCs
 | * Memory Structure of Allen‐Bradley PLCs
 | * Addressing
 |
| * Introduction to Ladder Diagrams
 | * Introduction to PicoSoft
 | * Writing, Editing and Simulating Ladder Logic in PicoSoft
 |
| * Introduction to RSLogix 5000
 | * Introduction to RSLinx
 | * Examples & Assignment
 |

The course is taught in five days with a number of practical exercises to equip students with relevant practical skills.

To successfully complete this course, the following prerequisites are required:

• Experience with basic control and electrical principles

• Experience operating a personal computer within a Microsoft Windows 95 or Windows NT environment.

We solicit once again your assistance to enable personnel in your organisation attend this important course, especially engineers and engineering technologists aspiring to various levels of membership with Ghana Institution of Engineering. Such personnel are now advised to ensure that they undertake Continuing Professional Development (CPD) to earn up to 18 CPD points over a one year period. Attendance at this seminar will earn a member 6 CPD points. Further information on CPD requirements for members can be found on www.ghie.org.gh

You will find enclosed one registration form for your attention. You may arrange to sponsor as many personnel as you wish

Yours faithfully,



**Ing. David Kwatia Nyante, FGhIE**

**Executive Director**

GHANA INSTITUTION OF ENGINEERING

**4-DAY NON-RESIDENTIAL ON PLC LEVEL 1**

Venue: **Engineers Centre, Roman Ridge**

Date **May 24 – 27, 2022**

Registration of Participants 8.30am - 9.00am **Lecture sessions start at 9.00a.m.**

Sponsoring Firm/Organisation ........................................................................................................

Address ............................................................................................................................................

I/We wish to nominate, sponsor and register the underlisted personnel for the Seminar.

1. ........................................................ 2. .....................................................................

3. ....................................................... 4. .....................................................................

5. ...................................................... 6. .....................................................................

7. ...................................................... 8. .....................................................................

**Mode of Payment**

* By cash or cheque to Ghana Institution of Engineers, Accounts No. 1441000558345, Ecobank, Ring Road Central.

***or***

* MTN Mobile money (GhIE MoMo) - 0245871500

***(Please admission is strictly by payment)***

**Fee per participant is GH¢1,500 Deadline for Registration May 23, 2022**

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Signature, Designation Firm/Company/Organisation

TO **Ghana Institution of Engineers**

 **Engineers Centre**

 **13 Continental Road, Roman Ridge**

 **PO Box 7042 Accra-North**

Reservations may be made by

**Tel:** 0302 -760867/8, 028-9673964, 0540502347

**Email:** secretariat@ghie.org.gh,ghiecentre@yahooo.com, **Website**: www.ghie.org.gh