

GHANA INSTITUTION OF ENGINEERING (GhIE)

2021 CPD COURSES AND SEMINARS

VIRTUAL FOR MOST OF THE SEMINARS

No.	TOPIC	PROPOSED DATE	COURSE CONTENT	RESOURCE PERSON	COST / PERSON								
1.	Autodesk Inventor 2019/2020 for Mechanical Engineers	April 19 - 23 (5 Days)	<ul style="list-style-type: none"> Professional-grade 3D mechanical design, documentation, and product simulation tools. Work efficiently with a powerful blend of parametric, direct, freeform, and rules-based design capabilities. 	Cab Royale Ltd	Member GH¢1,000 Non-Member GH¢1,200								
2.	AutoCAD 2020/2021 for Electrical Engineers	May 3 -7 (5 Days)	<ul style="list-style-type: none"> Efficiently create, modify, and document electrical controls systems with an industry-specific toolset for electrical design. Electrical schematic design. 	Cab Royale Ltd	Member GH¢ 800.00 Non-Member GH¢ 1,200.00								
3.	Technical Report Writing	May 11- 12 (2 days)	<ul style="list-style-type: none"> Report Structure and Formats Writing Style and Language Presentation of Information Textual (Descriptive)-Graphical, Numerical and Types of Summary 	Dr. Kobby Mensah, PhD from the University of Sheffield, UK. He is a leading expert in Communication,	Gh¢600								
4.	Safe Chemical Handling	May 18 – 19 (2 Days)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> Definitions – What are chemicals </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> What does the law say </td> </tr> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> Chemical Hazards and control </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> Control of chemical hazards </td> </tr> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> PPE Requirements, use and maintenance </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> Safe storage of Chemical </td> </tr> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> The importance of </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> Chemical Safety </td> </tr> </tbody> </table>	<ul style="list-style-type: none"> Definitions – What are chemicals 	<ul style="list-style-type: none"> What does the law say 	<ul style="list-style-type: none"> Chemical Hazards and control 	<ul style="list-style-type: none"> Control of chemical hazards 	<ul style="list-style-type: none"> PPE Requirements, use and maintenance 	<ul style="list-style-type: none"> Safe storage of Chemical 	<ul style="list-style-type: none"> The importance of 	<ul style="list-style-type: none"> Chemical Safety 	Ing. Ben Richard Aniagyei, Past President of GhIE Degree in Mechanical Engineering KNUST. He has	GH¢600
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			Safety Data Sheets (SDS)	Rules	over 30 years working experience in the field.	
5.	ProtaStructure 2021 for Civil Engineers	May 24 – 28 (5 Days)	<ul style="list-style-type: none"> • model simple or complex • concrete and steel buildings with speed and ease. • Use physical objects including trusses, beams and slabs to create and visualize models quickly and efficiently. • Seamlessly communicate and refine models with other leading BIM systems including Autodesk Revit. • Seismic Analysis and Design technology allowing engineers to confidently deliver projects. 		Cab Royale Ltd	Member GH¢1,000 Non-Member GH¢1,200
6.	Engineering Construction Management	June 8 – 9 (2 Days)	<ul style="list-style-type: none"> • Basics of Construction Project Management • Evaluation of tenders • Adherence to planning and failure to plan (including Case studies) • Practical site experiences and higher qualifications devoid of site experience (case studies) <p>Causes, curbing and avoidance of cost overrun (case studies)</p>		Ing. Moses Arkoh Ing. Joshua Allotey	GH¢600
7.	Training on Control of Hazardous Energies – Lock Out/Tag Out	June 15 – 16 (2 days)	<ul style="list-style-type: none"> • Types of Hazardous Energies • Lock Out/Tag Out (LOTO) • Who should Lock/Tag Out • 6-steps of LOTO • Removing Locks 		Ing. Ben Richard Aniagyei, Past President of GhIE Degree in Mechanical Engineering KNUST. He has over 30 years working experience in the field.	GH¢600

8.	Concrete Technology Training (Highly subsidized)	June 29 – 30 (2 days)	<ul style="list-style-type: none"> • Overview of the concrete industry in Ghana • Interaction of various concrete constituents • Cement, typical properties and use in Ghana • Effects of water-cement ratio • Admixtures: Importance in concrete and how to save concrete • constructional cost whilst ensuring quality • Benefits of concrete additives such as pozzolana and fly-ash • Concreting case studies around Ghana • Concrete descriptive mix design based on BS EN 206-1 • Hot-weather concreting • Water-tight, roller compacted, and marine concrete 	Mr. Vincent Oderah	GH¢400		
9.	Geotechnical Design Workshop - Reliability Based Design for Shallow Foundation using Eurocode 7	July 6-8 (3 days)	<p>Overview of EC7 & Sources of uncertainties in soils Statistics and its use in the estimation of soil properties Partial factors discussion & Design Combinations per EC7 The Design Steps and Design Workshop using as many case studies as possible</p>	Ing. J.K. Oddei	GH¢500		
10.	Deep Foundations – Piling	July 20 – 22 (3 Days)	<table border="0"> <tr> <td data-bbox="840 855 1218 1401"> <ol style="list-style-type: none"> 1. PILES – DEFINITION, USES, TYPES, ETC 2. METHODS OF DRIVING – SUMMARY 3. THEORETICAL CONSIDERATIONS OF PILING <ol style="list-style-type: none"> a. Design summary b. Design specifications c. Case Study – sheet piling (Doninga pier <p>UNDER SEA PILING</p> </td> <td data-bbox="1218 855 1599 1401"> <p>BORE PILING –</p> <ul style="list-style-type: none"> o Machinery o Method statement o Case study – Doninga: abutment piles <p>PILING IN FLOOD WATERS</p> <ol style="list-style-type: none"> a. Method statement b. Case study - Sissili Pier 4 (reclamation of land through sheet piling + bore piling) </td> </tr> </table>	<ol style="list-style-type: none"> 1. PILES – DEFINITION, USES, TYPES, ETC 2. METHODS OF DRIVING – SUMMARY 3. THEORETICAL CONSIDERATIONS OF PILING <ol style="list-style-type: none"> a. Design summary b. Design specifications c. Case Study – sheet piling (Doninga pier <p>UNDER SEA PILING</p>	<p>BORE PILING –</p> <ul style="list-style-type: none"> o Machinery o Method statement o Case study – Doninga: abutment piles <p>PILING IN FLOOD WATERS</p> <ol style="list-style-type: none"> a. Method statement b. Case study - Sissili Pier 4 (reclamation of land through sheet piling + bore piling) 	Ing. Joshua Allotey	GH¢500
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			<p>4. Summary Method</p> <p>5. Specifications</p> <p>6. CASE STUDY – TAKORADI</p>		
11.	Advanced Concrete Technology Training (Highly subsidized)	Aug 10 – 11 (2 days)	<p>Concrete repair solutions</p> <p>Logical structure to the steps in the repair process of developing repair solutions</p> <p>Effective waterproofing systems as outlined in BS EN8102:2009</p> <p>Joint sealants</p> <p>1K and 2K waterproofing systems</p> <p>Epoxy flooring solutions</p>	Mr. Vincent Oderah	GH¢400
12.	Technical Report Writing	Aug 25- 26 (2 days)	<p>Report Structure and Formats</p> <p>Writing Style and Language</p> <p>Presentation of Information</p> <p>Textual (Descriptive)-Graphical, Numerical and Types of Summary</p>	<p>Dr. Kobby Mensah, PhD from the University of Sheffield, UK.</p> <p>He is a leading expert in Communication,</p>	Gh¢600
13.	Geotechnical Design Workshop – Serviceability Limit State (SLS) Design using EC7-1 for shallow foundation.	Sept 21– 23 (3 days)	<p>Overview of Ultimate Limit State (ULS) design Principles</p> <p>Design Examples for the ULS</p> <p>SLS design steps and Design Workshop</p>	Ing. J.K. Oddei	GH¢500
14.	Electrical Safety	Sept 11-16 (3 days)	<p>General Electrical Safety</p> <p>Electrical Safety (cont.)</p> <p>Exercise / Discussions</p> <p>Safe Excavations / Works Permit System</p> <p>Work Permit System</p> <p>Work on High / Low Voltage Systems</p> <p>Control of Hazardous Energies</p> <p>Safe Installation of Gensets</p>	<p>Ing. Ben Richard Aniagyei, Past President of GhIE</p> <p>Degree in Mechanical Engineering KNUST. He has</p>	GH¢600

			Video on Safe Electrical Work Practices	over 30 years working experience in the field.	
15.	Urban Flood Modelling with HECHMS	Oct 12-13 (2 days)	<ul style="list-style-type: none"> • HEC HMS User Interface • HEC HMS Basin Models • HEC HMS Meteorological Models • Calibrating HEC HMS Models & Modelling Future Scenarios 	Ing. Kojo Keelson	Gh¢500
16.	Revit Structure 2020/2021 for Civil Engineers and Technicians	Oct 25 - 29 (5 Days)	<p>Model 3D concrete reinforcement in an advanced BIM environment. Create more accurate, detailed documentation of steel and concrete designs.</p>	Cab Royale Ltd	Member GH¢1,000 Non-Member GH¢1,200
17.	Contract Administration & Management	Nov 8 - 19 (2 days)	<p>Law of Contract Contract Formulation & Preparation Tender Pricing & Procedures Tender Evaluation & Negotiation Contract Administration Variation Orders, Claims & Settlements of Disputes</p>	<p>Hon. David Opon-Kusi. FGhIS</p> <p>Surv. James Klu. FGhIS</p> <p>Ing. Kwesi Abbey Sam. FGhIE</p> <p>Lawyer Effiba Amihere</p>	Gh¢600
18.	Health Safety & Environment (HSE)- Internal Audit Training	Nov 23-25 (3 days)	<ul style="list-style-type: none"> □ Overview of OHSAS 18001:2007 Management System Standards requirements □ Internal Audit Process: <ul style="list-style-type: none"> o Internal Audit Objectives and targets o Audit Definitions o Audit Principles and Audit Types of Audit planning/program of o How to Conduct the Audit o Audit Review/Reports o Benefits of Internal Audits □ Audit case study and role-play 	Ing. Ben Richard Aniagyei, Past President of GhIE Degree in Mechanical Engineering KNUST. He has over 30 years working experience in the	GH¢600

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19.	Concrete Technology Training (Highly subsidized)	Nov 29-30 (2 days)	<p>Overview of the concrete industry in Ghana</p> <p>Interaction of various concrete constituents</p> <p>Cement, typical properties and use in Ghana</p> <p>Effects of water-cement ratio</p> <p>Admixtures: Importance in concrete and how to save concrete constructional cost whilst ensuring quality.</p> <p>Benefits of concrete additives such as pozzolana and fly-ash</p> <p>Concreting case studies around Ghana</p> <p>concrete descriptive mix design based on BS EN 206-1</p> <p>Hot-weather concreting</p> <p>Water-tight, roller compacted, and marine concrete.</p>	Mr. Vincent Oderah	GH¢400
20.	Designing with Auto CAD Civil 3D 2011	Dec 6-10 (5 Days)	<p>Working with Points</p> <p>Surfaces</p> <p>Alignment</p> <p>Profiles</p> <p>Corridor</p>	Ing. Bernard Owusu BSc. Civil Engineering, MSc Road and Transportation Engineering,	GH¢800

Reservations may be made by: Tel: [0540502347](tel:0540502347) or [0302 -760867/8](tel:0302-7608678), or Email: jacbeechem@ghie.org.gh and copy ghiecentre@yahoo.com.