

GHANA INSTITUTION OF ENGINEERING (GhIE)

2020 CPD COURSES AND SEMINARS

No.	TOPIC	PROPOSED DATE	COURSE CONTENT	RESOURCE PERSON	COST / PERSON
1.	Physical Asset Management	February 24-28 (5 days)	<ul style="list-style-type: none"> • Reliability Improvement through Preventive Maintenance and Optimal Spares Stocking Policies. • Reliability Improvement through Inspection & Predictive Maintenance. • Life Cycle Costing (LLC) Management and Effective Use of Maintenance Resources. • Role of Emerging Technologies in Physical Asset Management. 	University of Toronto Centre and Maintenance Optimization and Reliability Engineering (C-More), Canada	GH¢12,000
2.	Discussion on Futuristic Software Technology and Trends for Structural Engineers in Ghana	February 25 Holiday Inn, Accra Airport February 26-27 GhIE Conf. Hall		MIDAS Partner in Ghana – Ing. Kwabena Bempong	GH¢200
3.	Skills for High Performance Teamwork (Part 1)	March 9-11 (3 days)	<ul style="list-style-type: none"> • Self-Competency Diagnostics & Review and Individual Development, Action Planning (IDAP)- Using My3D online tool to understand your competency strengths and gaps (thinking and reasoning skills, behavioural and attitude and passion and leadership skills). • Module 1: Building Effective Personal Relations with Communication for Engineers. • Module 2: Giving/Receiving Feedback in Engineering Practice. • Module 3: Group Dynamics for Project/Engineering Teams. 	TDI Global Group	GH¢1,300

4.	Skills for High Performance Teamwork (Part 2)	March 16-17 (2 days)	<ul style="list-style-type: none"> • Module 4: Engineering Team Decision-Making. • Module 5: Engineering Team Problem-Solving. • Module 6: Conflict Resolution for Engineering Teams. • Module 7: Leveraging Time for Engineering Practice. 	TDI Global Group	GH¢1,200
5.	Concrete Technology Training (Highly subsidized)	April 7 – 8	<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
6.	Engineering Construction Management	April 14 - 16 (3 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) • Causes, curbing and avoidance of cost overrun (case studies) 	Ing. Moses Arkoh Ing. Joshua Allotey	GH¢1,200
7.	Metal Structures Fabrication Quality Assurance	April 20-22 (3 days)	<ul style="list-style-type: none"> ▫ Latest professional welding skills and techniques in the manufacturing, oil & gas industries. ▫ Latest Non-Destructive Evaluation skills & techniques for Non-Destructive Testing Professionals in automobile, manufacturing, oil & gas industries. ▫ Metal structural assembling for Electric Pylons & Towers 	STARFA	GH¢2,500

			and Sign & Bill Boards.		
8.	Industrial Safety Fire Prevention Management	April 20-24 (3 days)	<ul style="list-style-type: none"> □ Explain the role of the Fire Warden and understand the principles of combustion and fire spread within a building. □ Know what actions to undertake in the event of a fire emergency and practice the safe and effective evacuation of their workplace. □ Explain the reactions of people in a fire emergency and manage an emergency incident until the arrival of the fire and rescue service. □ Have a good understanding of the first aid fire-fighting equipment in their premises and identify the key requirements of current fire safety legislation. □ Follow the fire risk assessment process and Identify fire safety issues within your workplace. □ Undertake a practical fire safety audit of simple premises. 	STARFA	GH¢2,500
9.	AutoCAD 2020	April 27-28 (2 Days)	<ul style="list-style-type: none"> □ Draft and edit geometry and models with solids, surfaces and mesh objects. □ Annotate drawings with text, dimensions, leaders and tables 	Cab Royale Limited	GH¢300
10.	Revit MEP 2020	April 29- 30 (3 days)	<ul style="list-style-type: none"> □ Develop Mechanical (HVAC, Fire Protection), Electrical lighting, Power, Low Voltage – TV, Communication), Plumbing (Water Supply & Drainage) BIMs □ Develop coordinated and clash-free BIMs □ Retrieving drawings and quantities directly from the Models. 	Cab Royale Limited	GH¢1,200
11.	Speaking for Lasting Impressions	May 4-6 (3 days)	<ul style="list-style-type: none"> □ Self-Competency Diagnostics & Review and Individual Development, Action Planning (IDAP)- Using My3D online tool to understand your competency strengths and gaps (thinking and reasoning skills, behavioural and attitude and passion and leadership skills). □ Module 1: Developing Dynamic Delivery. 	TDI Global Group	GH¢1,500

			<ul style="list-style-type: none"> ▫ Module 2: Speaking with Conviction. ▫ Module 3: Presenting with Purpose. ▫ Module 4: Raising Retention 		
10.	Making Positive Impact in Engineering Practice	May 11-13 (3 days)	<ul style="list-style-type: none"> ▫ Self-Competency Diagnostics & Review and Individual Development, Action Planning (IDAP)- Using My3D online tool to understand your competency strengths and gaps (thinking and reasoning skills, behavioural and attitude and passion and leadership skills). ▫ Module 1: Attitude & Personal Accountability. ▫ Module 2: Balance, Change & Productivity. ▫ Module 3: Communication & Leadership. ▫ Module 4: Emotional Intelligence-Pathway for Personal Success. 	TDI Global Group	GH¢1,500
12.	Geotechnical Design Workshop - Reliability Based Design for Shallow Foundation using Eurocode 7	May 19 - 21 (3 days)	<ul style="list-style-type: none"> ▫ 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 	Ing. J.K. Oddei	GH¢500
13.	ProtaStructure 2019	May 26- 27 (2 days)	<ul style="list-style-type: none"> ▫ Innovative structural BIM solution for quick and accurate modelling, analysis and design of buildings. ▫ Advanced integrated features such as group design and 3D Finite Element Analysis. ▫ Staged construction, seismic design, foundations and punching shear checks. ▫ Quickly produce accurate bending schedules and all drawings for construction. 	Cab Royale Limited	GH¢1,000

14.	Advanced Leadership: From Control to Empowerment (Part 1)	June 1-3 (3 days)	<ul style="list-style-type: none"> □ Self-Competency Diagnostics & Review and Individual Development, Action Planning (IDAP)- Using My3D online tool to understand your competency strengths and gaps (thinking and reasoning skills, behavioural and attitude and passion and leadership skills). □ Module 1: Principles of Leadership. □ Module 2: Practices of empowering Leaders. □ Module 3: The five Leadership Roles. □ Module 4: Leadership Roles: An Assessment. 	TDI Global Group	GH¢1,500	
15.	Advanced Leadership: From Control to Empowerment (Part 2)	June 8-9 (2 days)	<ul style="list-style-type: none"> □ Module 5: Personal Productivity. □ Module 6: Fundamentals of High-Performance Teams. 	TDI Global Group	GH¢1,200	
			<ul style="list-style-type: none"> • Module 7: Performance Expectations. • Module 8: Empowering others for Success. 			
16.	Deep Foundations – Piling	June 16 – 18 (3 Days)	<ul style="list-style-type: none"> • PILES – DEFINITION, USES, TYPES, ETC • METHODS OF DRIVING – SUMMARY • THEORETICAL CONSIDERATIONS OF PILING <ul style="list-style-type: none"> a. Design summary b. Design specifications c. Case Study – sheet piling (Doninga pier 1) 	<ul style="list-style-type: none"> □ BORE PILING – <ul style="list-style-type: none"> o Machinery o Method statement o Case study – Doninga: abutment piles 	Ing. Joshua Allotey	GH¢750
			<ul style="list-style-type: none"> □ UNDER SEA PILING <ul style="list-style-type: none"> a. Summary Method b. Specifications CASE STUDY – TAKORADI 	<ul style="list-style-type: none"> □ PILING IN FLOOD WATERS <ul style="list-style-type: none"> a. Method statement b. Case study - Sissili Pier 4 (reclamation of land through sheet piling + bore piling) 		

			<ul style="list-style-type: none"> □ TEMPORARY RIVER CROSSING <ul style="list-style-type: none"> a. Design considerations b. Construction c. Function during flood d. Advantages/disadvantages 	<ul style="list-style-type: none"> □ DISCUSSIONS □ COURSE WORK 		
17.	Advanced Concrete Technology Training (Highly subsidized)	June 23 – 24	<ul style="list-style-type: none"> • Concrete repair solutions • Logical structure to the steps in the repair process of developing repair solutions • Effective waterproofing systems as outlined in BS EN8102:2009 Joint sealants • 1K and 2K waterproofing systems • Epoxy flooring solutions 		Mr. Vincent Oderah	GH¢400
18.	Occupational Health and Safety Management System Awareness Course (ISO 45001:2018)	June 31 – July 1			Ing. Ben Richard Aniagyei, Past President of GhIE Degree in Mechanical Engineering KNUST. He has over 30 years working experience in the field.	GH¢850
19.	Energy Management System Awareness Course (ISO 50001)	July 8 – 9			Ing. Ben Richard Aniagyei, Past President of GhIE Degree in Mechanical Engineering KNUST. He has over 30 years working experience	

				in the field.	
20.	Geotechnical Design Workshop – Serviceability Limit State (SLS) Design using EC7-1 for shallow foundation.	July 14 – 16 (3 days)	<ul style="list-style-type: none"> • Overview of Ultimate Limit State (ULS) design Principles • Design Examples for the ULS • SLS design steps and Design Workshop 	Ing. J.K. Oddei	Gh¢500
21.	Urban Flood Modelling with HECHMS	July 28 - 29 (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¢850
22..	Health Safety & Environment (HSE)- Internal Audit Training	Aug 4 - 6 (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 <ul style="list-style-type: none"> 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 field.	Gh¢1,000
	Construction Safety Standard/Specification Requirements	Aug 12 – 13		Ing. Ben Richard Aniagyei, Past President of GhIE Degree in Mechanical Engineering KNUST. He has over 30 years working experience in the field.	

23.	Contract Administration & Management	Aug18 - 19 (2 days)	<ul style="list-style-type: none"> • Law of Contract • Contract Formulation & Preparation • Tender Pricing & Procedures • Tender Evaluation & Negotiation • Contract Administration • Variation Orders, Claims & Settlements of Disputes 	<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¢850												
24.	Technical Report Writing	Aug 28 - 29 (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 	<p>Dr. Kobby Mensah, PhD from the University of Sheffield, UK.</p> <p>He is a leading expert in Communication,</p>	Gh¢850												
25.	Fire Safety Design – Principles and Practice 3	September 2 - 3 (2 days)	<ul style="list-style-type: none"> • Design Principles for fire prevention: • Architectural Design • Electrical Design • Structural Design • Fire Fighting Techniques 	<p>Architect Harold Evans</p> <p>Ing. Joshua Allotey</p> <p>Mr. D.S. Afful</p>	GH¢850												
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27.	Analysis & Design of Stormwater Conveyance System	September 15 - 16 (2 days)	<ul style="list-style-type: none"> • Overview of Stormwater System • Relationship between Rainfall and Runoff • Estimation of Peak Flows for Design using Rational Method 	Ing. Obeng Atuah	Gh¢850
			<ul style="list-style-type: none"> • Concept of Open Channel and Pipe Flow • Case Study: Design of Storm Drainage for Housing Estates 		
28.	Rainfall Runoff Modelling with EPA SWMM	October 13 - 14 (2 days)	<ul style="list-style-type: none"> • Rainfall Data Types • Overland Flow Routing • Infiltration Methods • Sensitivity Analysis and Calibration • Continuous Simulation 	Ing. Kojo Keelson	Gh¢1,200
29.	Electrical Safety	November 4 - 5 (2 days)	<ul style="list-style-type: none"> • General Electrical Safety • Electrical Safety (cont.) • Exercise / Discussions • Safe Excavations / Works Permit System • Work Permit System • Work on High / Low Voltage Systems • Control of Hazardous Energies • Safe Installation of Gensets • Video on Safe Electrical Work Practices 	Ing. Ben Richard Aniagyei, Past President of GhIE Degree in Mechanical Engineering KNUST. He has over 30 years working experience in the field.	Gh¢850

30.	Advanced Concrete Technology Training (Highly subsidized)	November 10 - 11	<ul style="list-style-type: none"> • Concrete repair solutions • Logical structure to the steps in the repair process of developing repair solutions • Effective waterproofing systems as outlined in BS EN8102:2009 • Joint sealants • 1K and 2K waterproofing systems • Epoxy flooring solutions 	Mr. Vincent Oderah	GH¢400
31..	Designing with Auto CAD Civil 3D 2011	November 16 - 20 (5 days)	<ul style="list-style-type: none"> • Working with Points • Surfaces • Alignment • Profiles • Corridor 	Ing. Bernard Owusu BSc. Civil Engineering, MSc Road and Transportation Engineering,	GH¢1,500
32.	HSE Awareness course for Oil Marketing Companies (OMCs)	November 24 – 25		Ing. Ben Richard Aniagyei, Past President of GhIE Degree in Mechanical Engineering KNUST. He has over 30 years working experience in the field.	

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.