BRENDATT SERVICES

Educational & Consultancy Services

P.O BOX 52142-00100, NAIROBI

Email: training@eeekenya.com

Website: https://training.eeekenya.com/

Email: training@eeekenya.com: Web: training.eeekenya.com

AutoCAD and Building Services Electrical Training Program

Training Program: https://training.eeekenya.com/program/ Training Registration: https://training.eeekenya.com/contact/

SILVER TRAINING PACKAGE

A. Training time

Customizable depending on the institution/individual.

Duration: 2 hours per session

B. Venue

Hybrid: Physical and Online through the Zoom platform*

C. What you also get

- 1. Drawing templates to practice on (in AutoCAD). Includes already designed electrical drawings.
- 2. Schedule of symbols for all electrical drawings (in AutoCAD) to use in your future projects.
- 3. Bills of Quantities (BoQs) templates to start from (in Excel, priced and unpriced) and use in future projects. BoQs will include all sections covered during training.
- 4. Non-academic, hands-on training by a practising professional.
- 5. Training certificate (optional).
- 6. Bonus Premium prerecorded videos on AutoCAD and DIALux.
- 7. No examinations.
- 8. A softcopy of the book, '<u>Electrical Services for Buildings: A Consultant's Guide</u>' by Eng. Benard Makaa.**
- 9. Three different projects to work on under the guidance of the trainer. <u>Download</u> sample instructions here:

D. Requirements

- 1. Background in basic electrical engineering principles.
- 2. **Laptop with installed AutoCAD and Dialux.
- 3. Dedication and commitment to the program.

Our Delivery Style

- Direct instructions=40%
- Assisted Practice=60%
- Classes are one-on-one and very personalized

^{**}Laptop specifications: At least 8GB RAM.

E. Training Schedule

Session	Content	Detailed Content	Time(Hours)
Sessions One,	Introduction to Building	Building Services(Electrical)	6
Two & Three	Services (Electrical) and	Typical project teams	
	Introduction to AutoCAD:	 Project Types 	
		 Design Process 	
	Drafting in AutoCAD	AutoCAD:	
	Cleaning drawings	Module 1: Introduction	
	Basic AutoCAD commands	 Introduction to 	
	Advanced AutoCAD	AutoCAD	
	commands	 Understanding the 	
	Layers	Requirements to Use	
	Blocks	the Software	
	Annotation	Module 2: Understanding	
	Editing drawings	Basic User Interface	
		Navigate through the	
		Software	
		Starting Tips	
		• Set Up the Drawing Environment	
		Module 3: Drawing in AutoCAD	
		Drawing Techniques	
		 Drawing recliniques Design Specifications 	
		 Using Modify 	
		 Using Annotation 	
		• Layer Properties	
		Command Prompt	
		Toolbar	
		Creating Views of	
		Objects	
		Deleting Files	
		Module 4: Layout	
		 Understanding 	
		Physical Components	
		 Design and Layout of 	
		Object	
		 Intent of Design 	
		Module 5: Techniques and	
		Documentation	
		Input Devices	
		Useful Technical	
		Illustrations	
		Techniques	

Sessions Four, Five & Six	Lighting Installations, AutoCAD & Bills of Quantities	 Importance of Documentation Ideas for Creating Documentations Module 6: Creating Blocks Blocks: Overall Review How to Create Multiple Blocks? Using the Block Editor Changing Existing Block Attributes Module 7: Viewports Viewports: General Overview Creating Working Templates in Layouts Design. Formulae. Specifications. Street Lighting Design Creating layouts BoQs 	6
Session Seven, Eight & Nine	Power Distribution, Design, AutoCAD & Bills of Quantities	 Specifications Load scheduling Cable Sizing, DBs, CU's, Protection, etc. Diversity factors Uninterruptible power supply. Sockets, Twin, Single. Double Poles, Three Phase Outlets. Schedule of Symbols Design Drawings, Schematics. 	6
Session Ten	Fire Alarms Systems Design, AutoCAD & Bills of Quantities	 Design Considerations, Design Drawings Bill of Quantities. Specifications 	2

System: Sounder and beacon. Integration with other systems (Audio Visual). Total Time	20 Hours
 Detectors, Alarm 	

Training Costs* (Per Individual):

1. USD 1,000.00 per individual for all sessions.

Payment Methods:

- 1. PayPal.
- 2. Bank Deposit or Mobile Payment.

Chief Trainer:

Eng. Benard Makaa, PE, MIEK, MAAK

Educational Qualifications:

- MSc. Electrical Engineering (Power Systems), JKUAT
- BSc. Electrical and Electronic Engineering, JKUAT

Professional Qualifications:

- Registered & Licensed Professional Engineer, Engineers Board of Kenya (EBK)
- Registered & Licensed Electrician(Class A-1) by Energy and Petroleum Regulatory Authority(EPRA)
- Corporate Member, The Institution of Engineers of Kenya (IEK)
- Corporate Member, The Architectural Association of Kenya (AAK)