

Real World Engineering Training Institute

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Training Program Projects

1. Project A: A Commercial Office Block:
Client: A SACCO company
2. Project B: A Residential Maisonette:
Client: A Private Developer
3. Project C: An Apartment Drawing:
Client: A Private Developer

Using AutoCAD drafting tools and the training materials shared, carry out the following:

1. Complete power installations design.
2. Complete lighting installations design.
3. Complete fire detection and alarm system design.

Deliverables:

1. Complete power installations design drawings in AutoCAD and PDF format.
2. Complete lighting installations design drawings in AutoCAD and PDF format.
3. Complete fire detection and alarm system design.
4. Schedule of symbols.
5. Complete Power distribution schematics for Main Low Voltage Board, Distribution Boards and Consumer Units.
6. Priced and unpriced BoQs.
7. Load schedule showing how the load was estimated.
8. Cable sizing calculations.

Set all the drawings in different layouts on A1 drawing paper in Landscape. Include the title block, and capture all the typical title block sections. Use the Batchplot command to print all the layouts to one PDF file for each project.

Note: These projects will be discussed and assessed during the last two sessions.