Training Schedule

Day 1:

- Circuit Design
- Schematics development and Simulation (Proteus)
- Firmware review
- Introduction to EasyEDA and Account Creation

Day 2 - 4:

- Schematics development on EasyEDA
- Introduction to PCB related Terms and concepts
- PCB layout planning and design Exercise 1
- PCB layout planning and design Exercise 2
- PCB layout planning and design for Exposure Unit

Day 5 - 6:

- Introduction to PCB manufacturing Process
- Exposure Unit's PCB manufacturing

Circuit Design

Good Practices/steps

1- Make a block Diagram of the solution
2- Use reference Documents (datasheet)
3- Analyse and design each block (design for constraints)
4- Simulate and amend the circuit if necessary
5- Test the circuit on breadboard or PCB prototype (for high power circuits)
6- Bring necessary modifications from testing
7- Test the circuit again
8- Test it again to make sure everything is working well
9- Design the (Final) PCB

- No need to memorize these steps, all you need is practice!!!
- To design means to choose the suitable components that will implement the desired control while allowing the various voltage/current quantities to flow without being destroyed.