

## Certified Solar Engineer (CSE)

**Mode:** Inperson (physical)

**Duration:** Six days from 10 to 5 PM Daily

**Sixth Day:** Discussion with Managers Solar Companies and final Test.

**Suitable for:** All Engineers and Technologists.



**Eligibility:** Bachelor in engineering or technology in any discipline.

**Scheme:** Daily theory from 10 to 1 PM and daily lab work from 2 to 5 pm. (50% Theory and 50% Practical) and sixth day is discussion with Solar Industry Managers and final Test.

### Course Outline

Module-1 (Solar PV Basics, Solar PV System Components – Functions and datasheets reading- Net Metering)

Module-2 (Solar PV System Designing (Off-grid, On-grid and Hybrid from 1 KW to 1 MW) through PV Syst and Helioscope.

Module-3 (Practice of installing solar PV system complete with configuration of Monitoring software and see its performance at Mobile or Laptop)

Module-4 (How to make SLD and Drawings)

Module -5 (How to make Technical and Commercial Proposals)

**National and International certifications both are available for this course.**

**In Partnership with TRACCERT Canada**

### KEY TAKEAWAYS

You will be able to,

1. Design solar PV systems from 5KW to 1 MW
2. How to make SLD and drawings of the whole system
3. How to make technical and commercial proposals



### BENEFITS OF THIS COURSE

1. You will get employment in solar company or any industry or Government as Design Engineer, Proposal Engineer, and System Engineer.
2. You can set up your own solar business of Solar PV in the market, operate and sustain it for longer periods.

### TRAINERS

1. Engr. Faiz Bhutta Master Trainer and CEO ETRC
2. Engr. Obaid -ur-Rehman – Assistant Manager ETRC (Lab work)

Contact: Program Coordinator at 03475151222 or email at [info@etrc.org.pk](mailto:info@etrc.org.pk)

For admission visit at [www.etrc.org.pk](http://www.etrc.org.pk)