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# THE BASICS OF SOLAR PV SYSTEMS

**ONLINE TRAINING COURSE 8 & 9 SEPTEMBER**



Register at [www.saretec.org.za](http://www.saretec.org.za)



**MAXIMUM 20 PARTICIPANTS**

2 day interactive training course hosted by international Solar PV expert, Tino Lübeck. Non-electricians permitted. An attendance certificate will be provided.

## PRESENTERS



**Michael Beer**  
**Owner** Photovoltaik-Service Beer

State-certified electrical engineer and master electrician; Member of standards working groups "Generation systems on the low-voltage grid".

Photovoltaic expert with professional experience in the solar industry since 1998 and certified expert for photovoltaics (TÜV-Rheinland).

Since 2018: International Master Craftsman (Examination: HWK Rhein-Main)



**Tino Lübeck**  
Certified expert for photovoltaics (TÜV-Rheinland)

State-certified economic technician, motor vehicle master craftsman, electrician: Area of expertise: Electro mobility (high-voltage stage 3) and charging infrastructure in the car dealership.

Many years of international experience in the training and sale of products requiring technical explanation and in the planning of PV systems.

### TRAINING OUTLINE

- 1 Electrical Hazards & Safety
- 2 General Planning of PV System
- 3 Solar Modules
- 4 Inverters
- 5 Balance of System
- 6 Mounting System
- 7 Test Equipment
- 8 Basic Measurement

### DURATION

- Over 2 days
- 8 x 45 minute sessions

### DAILY SCHEDULE

- 2 x 45 minute lessons
- 45 minutes Q & A
- Lunch break
- 2 x 45 minute lessons
- 45 minutes Q & A