

## COURSE SCHEDULE

### The Design and Installation of Grid Connected Photovoltaic (PV) Systems Training

DAY	TIME	SUBJECT	DESCRIPTION
1	0900 ~ 1030	Lecture	Introduction, Scope of Course, Safety Orientation, PV Overview
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1200	Lecture	Solar Resource
	1200 ~ 1215	Lecture	Parallel Series Circuits
	1215 ~ 1300	Lecture	System components PV cells (The photoelectric effect ... Array)
	1300 ~ 1400	Break	Lunch is provided
	1400 ~ 1445	Lecture	Continue .. System components PV cells (Electrical Protection ... Module reliability).
	1445 ~ 1545	Lecture	Inverters
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1630	Lecture	Balance of System
	1630 ~ 1700	Lecture	What is grid connected?
2	0900 ~ 1030	Tutorial	Exercises based on previous work
	1300 ~ 1400	Break	Refreshment is provided
	1050 ~ 1300	Practical	Measuring PV module outputs and use of solar path finder
	1300 ~ 1400	Break	Lunch is provided
	1400 ~ 1545	Lecture	System Design Part A
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1700	Lecture	Continue.. System Design Part A
3	0900 ~ 1030	Tutorial	Exercises based on previous work
	1300 ~ 1400	Break	Refreshment is provided
	1050 ~ 1300	Tutorial	System Design Exercises 1
	1300 ~ 1400	Break	Lunch is provided
	1400 ~ 1545	Lecture	System Design Part B
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1700	Tutorial	System Design Exercises 2

DAY	TIME	SUBJECT	DESCRIPTION
4	0900 ~ 1030	Tutorial	Exercises based on previous work
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1300	Lecture	System Installation
	1300 ~ 1400	Break	Lunch is provided
	1400 ~ 1500	Lecture	Commissioning
	1500 ~ 1545	Lecture	Maintenance and Trouble Shooting
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1700	Lecture	Economics of PV systems
5	0900 ~ 1000	Lecture	Field Experience - Installing a BIPV System
	1000 ~ 1020	Break	Refreshment is provided
	1020 ~ 1215	Tour	Introduction to the PTM-ZEO Building
	1215 ~ 1445	Break	Lunch is provided
	1445 ~ 1545	Lecture	Discussion on Roof System installations
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1700	Tutorial	Review and Q & A
6	0900 ~ 10.30	Lecture	System acceptance test (demo at site)
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1300	Practical	Wiring of switchgear box (Groups 1,2,3)
	1300 ~ 1400	Break	Lunch is provided
	1400 ~ 1545	Practical	Continue ... wiring of switchgear box (Groups 3,4,5)
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1700	Practical	Continue ... wiring of switchgear box (Group 6)
7	0900 ~ 10.30	Assessment	One-on-one (Candidates demonstrate and interviewed on: Commissioning, System acceptance, Wiring, Q&A)
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1300	Assessment	One-on-one (Candidates demonstrate and interviewed on: Commissioning, System acceptance, Wiring, Q&A)
	1300 ~ 1400	Break	Lunch is provided
	1400 ~ 1545	Assessment	One-on-one (Candidates demonstrate and interviewed on: Commissioning, System acceptance, Wiring, Q&A)
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1700	Assessment	One-on-one (Candidates demonstrate and interviewed on: Commissioning, System acceptance, Wiring, Q&A)

DAY	TIME	SUBJECT	DESCRIPTION
8	0900 ~ 10.30	Assessment	One-on-one (Candidates demonstrate and interviewed on: Commissioning, System acceptance, Wiring, Q&A)
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1300	Tutorial	Review and Q & A
	1300 ~ 1400	Break	Lunch is provided
	1400 ~ 1545	Tutorial	Review and Q & A
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1700	Tutorial	Review and Q & A
9	0900 ~ 10.30	Tutorial	Review and Q & A
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1300	Tutorial	Review and Q & A
	1300 ~ 1400	Break	Lunch is provided
	1400 ~ 1545	Tutorial	Review and Q & A
	1545 ~ 1600	Break	Refreshment is provided
	1600 ~ 1700	Tutorial	Review and Q & A
10	0930 ~ 1130	Examination	Part 1 - Comprehensive Open Book
	1200 ~ 1500	Break	Lunch is provided
	1500 ~ 1700	Examination	Part 2 – Comprehensive Open Book