



**ONLINE TRAINING ON INTRODUCTION OF OFF-GRID PHOTOVOLTAIC SYSTEMS FOR
NON-TECHNICAL PERSON
16th – 17th November 2021**

DAY 1

TIME	DESCRIPTION	Speaker
09:00 – 09:10	Course Outline	
09:10 – 09:30	Introduction to SEDA Malaysia	SEDA Malaysia's Representative
09:30 – 10:30	Lecture 1 - Introduction to Off-Grid Photovoltaic System <ul style="list-style-type: none"> • Direct coupled system <ul style="list-style-type: none"> ○ Water pumping system • PV-battery system • PV hybrid system <ul style="list-style-type: none"> ○ DC coupled ○ AC coupled • All-in-one inverter system 	Prof. Dr. Sulaiman Bin Shaari
10:30 – 10.45	Break	
10:45 – 12:30	Lecture 2 - Design concept of OGPV System <ul style="list-style-type: none"> • Direct coupled system • PV-battery system • PV hybrid system 	Prof. Kehormat Dr. Ahmad Maliki Bin Omar
12:30 – 13:00	Q & A	
13:00	End of Day 1	

DAY 2

TIME	DESCRIPTION	Speaker
09:00 – 10:45	Lecture 3 - Simple Sizing of PV Battery System <ul style="list-style-type: none">• Load profile• Energy storage<ul style="list-style-type: none">○ Lead acid○ Lithium ion• Selection of PV module• Selection of charge controller<ul style="list-style-type: none">○ PWM charge controller○ MPPT charge controller• Selection of inverter<ul style="list-style-type: none">○ Modified sine wave○ Pure sine wave	Prof. Kehormat Dr. Ahmad Maliki Bin Omar
10.45 – 10:55	Break	
10:55 – 12:45	Lecture 4 - Installation, Testing, Commissioning, Operation and Maintenance <ul style="list-style-type: none">• Site selection<ul style="list-style-type: none">○ Orientation○ Tilt angle○ Structure• Installation practice• Testing and commissioning procedures• Operation and maintenance• Monitoring and assessment	Prof. Dr. Sulaiman Bin Shaari
12:45 – 13:00	Q & A	
13:00	End of Day 2	