

# INSTALLING PHOTOVOLTAIC SYSTEMS

## AGENDA

FSEC PV WORKSHOP - February 6-10, 2017	Start	End	Principal	Type	Location
<b>Monday</b>					
Registration	8:00	8:30	Martha Camomilli		Visitor Center
<b>1. Introduction</b>	8:30	9:15	Ken Blackwell	Introduction	Classroom
Break - 5					
<b>2. Solar Fundamentals</b>	9:20	10:10	Ken Blackwell	Presentation	Classroom
Break - 5					
<b>3. Site Survey</b>	10:15	11:15	Ken Blackwell	Presentation	Classroom
Break - 5					
Lab 1: Site Survey	11:20	12:00	Metzger/Blackwell/Sherwin	Laboratory	Outdoors
Lunch	12:00	1:00	Provided		Visitor Center
<b>4. System Sizing</b>	1:00	1:55	Ken Blackwell	Presentation	Classroom
Break - 5					
<b>5. PV Array</b>	2:00	2:50	Ken Blackwell	Presentation	Classroom
Break - 10					
<b>5. PV Array (Cont.)</b>	3:00	3:55	Ken Blackwell	Presentation	Classroom
Break - 5					
Class exercise/Homework: Open for class exercises TBD	4:00	5:00		Presentation	Classroom
Class exercise/Homework: Review of Sizing and Selecting a PV System - Assign Take Home Exercise					
Assign chapters to read in Dunlop textbook					
<b>Tuesday</b>					
<b>6. Mounting</b>	8:30	9:40	Ken Blackwell	Presentation	Classroom
Break - 5					
<b>6. Mounting (Cont.)</b>	9:45	10:50	Ken Blackwell	Presentation	Classroom
Break - 5					
Lab 2: I-V Curve Lab	10:55	12:00	Metzger/Blackwell/Sherwin	Laboratory	High Bay
Lunch	12:00	1:00	Provided		Visitor Center
<b>7. Safety</b>	1:00	1:55	Ken Blackwell	Presentation	Classroom
Break - 5					
Lab: Safety and installation materials	2:00	2:50	Metzger/Blackwell/Sherwin	Presentation	High Bay
Break - 10					
Lab 3: Array/Mechanical Mounting	3:00	3:55	Metzger/Blackwell/Sherwin	Laboratory	High Bay
Break - 5					
Class exercise/Homework: Class exercise on rack mounting	4:00	5:00		Laboratory	High Bay
Class exercise/Homework: Review of Sizing and Selecting a PV System - Completed Take Home Exercise Review					
Assign chapters to read in Dunlop textbook					

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Wednesday	Start	End	Principal	Type	Location
<b>8. Wiring</b>	8:30	9:40	Ken Blackwell	Presentation	Classroom
<i>Break - 5</i>					
<b>8. Wiring (Cont.)</b>	9:45	10:50	Ken Blackwell	Presentation	Classroom
<i>Break - 5</i>					
Lab: Grid Connected Inverter Board	10:55	12:00	Metzger/Blackwell/Sherwin	Presentation	Classroom
Lunch	12:00	1:00	Provided		Visitor Center
<b>9. Inverter</b>	1:00	1:55	Ken Blackwell	Presentation	Classroom
<i>Break - 5</i>					
<b>9. Inverter (Cont.)</b>	2:00	2:30	Ken Blackwell	Presentation	Classroom
<i>Break - 5</i>					
Lab 4: Grid Connected Inverter Lab (SMA 700Watt)	2:35	3:55	Metzger/Blackwell/Sherwin	Laboratory Demo	High Bay
<i>Break - 5</i>					
Class exercise/Homework: Wiring Layout Assign chapters to read in Dunlop textbook	4:00	5:00			
Thursday	Start	End	Principal	Type	Location
<b>10. Batteries, Charge Controllers and UPS Systems</b>	8:30	9:40	Ken Blackwell	Presentation	Classroom
<i>Break - 5</i>					
<b>10. Batteries, Charge Controllers and UPS Systems (Cont.)</b>	9:45	10:50	Ken Blackwell	Presentation	Classroom
<i>Break - 5</i>					
Lab 5B: Grid Connected Battery Inverter	10:55	12:00	Metzger/Blackwell/Sherwin	Laboratory	High Bay
Lunch	12:00	1:00	Provided		Visitor Center
<b>10. Batteries, Charge Controllers and UPS Systems (Cont.)</b>	1:00	1:55	Ken Blackwell	Presentation	Classroom
<i>Break - 5</i>					
Lab 5A: Battery Demonstration	2:00	3:30	Metzger/Blackwell/Sherwin	Laboratory	High Bay
<i>Break - 5</i>					
Class exercise/Homework: Wiring Layout Review Class exercise/Homework: Load analysis Assign chapters to read in Dunlop textbook	3:35	5:00			
Friday	Start	End	Principal	Type	Location
<b>11. Interconnection</b>	8:30	10:45	Ken Blackwell	Presentation	Classroom
<i>Break - 5</i>					
<b>12. Acceptance Testing</b>	10:50	11:45	John Sherwin	Presentation	Classroom
Wrap up and Q&A (includes evaluations and certificates)	11:45	12:00	Ken Blackwell		Classroom