

# Training programme Monday– Day 1

Venue: Building N1 – Room G03

Time	Activity	Presenter	Details and documents
09:00 – 09:30	Arrival and Welcome	Faure van Schalkwyk	
09:30 – 10:00	PV solar in the world and SA (The future of SSEG for Municipalities)	Faure van Schalkwyk	Notepad needed
10:00 – 10:30	Introduction to Photovoltaics (Electric Basics, Characteristics of Solar Energy and Typical PV system)	Faure van Schalkwyk	Notepad needed
10:30 – 10:45	Mid-Morning break	All	
10:45 – 11:15	Introduction to Photovoltaics (Types of Inverters, charge controllers, batteries and PV modules/Panels)	Faure van Schalkwyk	Notepad needed
11:15 – 11:30	Class discussion	All	Notepad needed
11:30 – 13:00	Introduction to Photovoltaics (Types of Roof structures and Differentiating PV modules/Panels, Batteries; Theory)	Faure van Schalkwyk	Notepad needed
13:00 – 13:45	Lunch	All	
13:45 – 14:45	PV solar systems and integration (Single line diagrams, different type of meters and Integration of PV solar components)	Faure van Schalkwyk	Notepad needed
14:45 – 15:15	Show Training PV plants	Faure van Schalkwyk	
15:15 – 17:00	PV solar systems and integration (Different PV solar systems, grid interaction, Load profiles; with PV solar)	Faure van Schalkwyk	Notepad needed
17:00 – 17:30	Training adjourned, survey and additional questions	All	Notepad needed

# Training programme Tuesday – Day 2

Venue: Building N1 – Room G03 and N3A G07

Time	Activity	Presenter	Details and documents
08:00 – 08:30	PV solar development status of Municipalities	Tshepo Seiphethlo	Notepad needed
08:30 – 09:30	Policy framework and role of Municipalities for PV solar	Dr. Gerhard Botha	Notepad needed
09:30 – 10:30	Technical Standards and Specifications (NRS 097-2-1 and 2)	Dr. Gerhard Botha	NRS 097-2-1 & 2 Needed
10:30 – 10:45	Mid-Morning break	All	
10:45 – 11:15	Technical Standards and Specifications (NRS 097-2-1 and 2)	Dr. Gerhard Botha	NRS 097-2-1 & 2 Needed
11:15 – 11:30	Class discussion	All - Tshepo Seiphethlo	Notepad needed
11:30 – 13:00	Technical Standards and Specifications (NRS 097-2-2, 3 and 4, SANS 10142-1 and 3)	Dr. Gerhard Botha	NRS 097-2-3 Needed
13:00 – 13:45	Lunch	All	
13:45 – 14:45	<b>Workshop 1:</b> Application of NRS 097-2-3	Tshepo Seiphethlo	NRS 097-2-3 Needed
14:45 – 15:15	Show solar cell phone charging station	Faure van Schalkwyk	Notepad needed
15:15 – 16:00	<b>Workshop 1:</b> Application of NRS 097- 2-3	Tshepo Seiphethlo	NRS 097-2-3 Needed
16:00 – 17:00	Metering and Monitoring	Prof Johan Rens	List of suitable Meters with applicable Specifications
17:00 – 17:30	<b>Workshop 2:</b> SMA Web design	Faure van Schalkwyk	Computers Needed
After 17:30	Training adjourned, survey and additional questions	All	

# Training programme Wednesday – Day 3

Venue: Building N3A G07

Time	Activity	Presenter	Details and documents
08:00 – 09:30	Regulations, standards and guidelines (Existing policies and AMEU SALGA SSEG resource pack)	Mark Borchers	AMEU Resource Pack needed
09:30 – 10:30	Regulations, standards and guidelines (Existing policies and AMEU SALGA SSEG resource pack)	Mark Borchers	AMEU Resource Pack needed
10:30 – 10:45	Mid-Morning break	All	
10:45 – 11:15	<b>Workshop 3:</b> Simulation of best-practice SSEG application and approval processes	Mark Borchers	AMEU Resource Pack needed
11:15 – 11:30	Class discussion	All	Notepad needed
11:30 – 13:00	<b>Workshop 3:</b> Simulation of best-practice SSEG application and approval processes	Mark Borchers	AMEU Resource Pack needed
13:00 – 13:45	Lunch	All	
13:45 – 14:15	By-Law Amendments necessary	Mark Borchers	Notepad needed
14:15 – 14:45	Capture and register SSEG installation – Details required	Faure van Schalkwyk	Notepad needed
14:45 – 15:15	Show Food & Energy PV plants	Faure van Schalkwyk	Notepad needed
15:15 – 16:00	<b>Workshop 4:</b> Capture and register SSEG installation on Small World (Practical)	Mark Borchers	Computers, Case Study & Guidelines Needed
16:00 – 17:00	Financial impact of rooftop PV (Explanation and theory)	Mark Borchers	Notepad needed
17:00 – 17:30	<b>Workshop 5:</b> How to deal with illegal PV solar systems	Dr. Gerhard Botha	Notepad needed
After 17:30	Training adjourned, survey and additional questions	All	

# Training programme Thursday– Day 4

Venue: Building N1 – Room G03

Time	Activity	Presenter	Details and documents
08:00 – 09:45	Practical Site inspection	All	Inspection Checklist, On site Step by Step Guidance.
09:45 – 11:00	<b>Workshop 6:</b> List issues and shortcomings from site visit	All - Dr. Gerhard Botha	Notepad needed
11:00 – 11:30	Mid-Morning break	All	
10:30 – 11:15	Financial impact of rooftop PV (Explanation, theory and New business Model)	Mark Borchers	
11:15 – 11:30	Class discussion	All	Notepad needed
11:30 – 13:00	<b>Workshop 7:</b> Financial impact of rooftop PV financial tool	Mark Borchers	Computers needed
13:00 – 13:45	Lunch	All	
13:45 – 15:15	Sign off processes and liabilities for Municipalities	Municipal Guest Speaker	Notepad needed
15:15 – 15:30	Electric scooters and Bicycles	Faure van Schalkwyk	
15:30 – 16:30	Business processes and quality assurance like PV Green Card.	Industry/SAPVIA Guest speaker	PV installation Guideline and role in Application Process.
16:30 – Until done	<b>Workshop 8: Online Self evaluation</b>	Faure van Schalkwyk	Computer Needed
18:30 for 19:00	Networking Evening (Social event for all too informally discuss training and connect with others.)	All	Venue TBD

# Training programme Friday – Day 5

Venue: Building N1 – Room G03

Time	Activity	Presenter	Details and documents
08:00 – 08:30	Commissioning, sign off processes and PV Green Card initiative	Faure van Schalkwyk	Notepad needed
08:30 – 09:15	Energy Efficiency	Jan van Ravenswaay	Notepad needed
09:15 – 11:00	Solar Procurement for Local Government	Jan van Ravenswaay	Notepad needed
11:00 – 12:30	<b>Workshop 9:</b> Going forward; procedure, steps and documents.	All - Dr. Gerhard Botha	Notepad needed
12:30 – 13:15	Final feedback and evaluation	All	Computers needed
13:15 – 14:00	Lunch	All	
14:00	Departure	All	
<b>– Thank you for attending –</b>			