

Installation Basics Training (IBT) Certificate Program Skill Set Personal Tracking Sheet

Name:

Directions:

- This tracking sheet is for you to keep track of the skills you master for the different certificates.
- You do not have to complete the skills in order.
- A Solar Installation Supervisor (SIS) will evaluate you and sign off on these skills.
- Once signed off on the required skills for a certificate, you'll be verified in the portal to received that certificate.
- You can print the certificate using the Volunteer Portal on the My Profile tab at volunteer gridalternatives.org.
- For Safety Certificates the online quiz will be available to you after the other skills have been verified in the portal.

Installation Basics Trainee requirements for someone not in a job training program:

- Potential IBT trainees must participate in at least one GRID Alternatives installation as a volunteer.
- After an initial install, take the Installation Basics Training orientation.
- During subsequent installs demonstrate competence in the skills listed below.

Installation Basics Training (IBT) Orientation Attended	Date:	Verified in Portal	
Array Installation Basics Certificates and Required Skills			
Job Site Safety	Date:	Verified in Portal	
•		Notes	
Demonstrate and encourage adherence to Heat Illness Prevention Plan			SIS Initials
Demonstrate proper use of PPE consistently			Initials SIS Initials
Set up and explain OSHA requirements of proper ladder use			SIS Initials
Demonstrate and explain proper use of Power Tools			SIS Initials
Demonstrate and encourage compliance w/ site safety plan during install			SIS Initials
Job Site Safety Quiz (take online)			
Fall Protection	Date:	Verified in Portal	
Install, under supervision, fall protection to manufacturer's specifications			SIS Initials
Demonstrate and encourage fall protection safety during the install			SIS Initials
Fall Protection Quiz (take online)			
Array Layout	Date:	Verified in Portal	
Translate array layout plan to roof/ground considering setbacks and shade			SIS Initials SIS
Mark layout for array and racking installation			Initials
Locate rafter center and mark misses			SIS Initials
Racking Installation	Date:	Verified in Portal	
Maintain weatherproofing and watershedding integrity			SIS Initials SIS
Install stand-offs and flashings to manufacturer's specifications			Initials
Cut and splice rails to manufacturer's specifications			SIS Initials
Install and align rails to manufacturer's specifications			SIS Initials SIS
Bond racking according to manufacturers specifications			SIS Initials
Circle install types: Asphalt shingle Tile Ballasted Ground Parapet			
Madula Laval Davian Flactus mice (MI DF) Installation	Data	Verified in Portal	_
Module Level Power Electronics (MLPE) Installation Install MLPE to manufacturers specifications	Date:	Verified in Portai	SIS
Ensure trunk cable is properly terminated and watertight (micros)			Initials SIS
Ensure proper electrical connetion in MLPE circuit or string			Initials SIS
Wire management - Properly dress and secure cabling			Initials SIS
			Initials SIS
Homerun installation, identification, labelling, and termination	Deter	Monthly II to Double	Initials
Module Installation Install and align modules to manufacturer's specifications	Date:	Verified in Portal	SIS
			Initials SIS
Manage module leads/wires			Initials SIS
Ensure end and mid-clamps are properly seated and torqued			Initials
Note: It typically takes more than one attempt to have a skill signed off so please	expect and accept	constructive criticism from the Sola	ar

Note: It typically takes more than one attempt to have a skill signed off so please expect and accept constructive criticism from the Solar Installation Supervisor. Please respect these requirements so that we may maintain a high standard of quality work and training. Installation Basics Trainees typically log more than 100 volunteer hours in order to complete their skill set checklist. Ultimately skill check off is at the discretion of the SIS and can take three or more installs for a single skill.



Installation Basics Training (IBT) Certificate Program Skill Set Personal Tracking Sheet

Name:					
			_		

Electrical Installation Basics Certificates and Required Skills

Job Site Safety (same as Array - only pass once)	Date:	Verified in Portal	
		Notes	
Demonstrate and encourage adherence to Heat Illness Prevention Plan			SIS Initials
Demonstrate proper use of PPE consistently			SIS Initials SIS
Set up and explain OSHA requirements of proper ladder use			Initials
Demonstrate and explain proper use of Power Tools			SIS Initials SIS
Demonstrate and encourage compliance w/ site safety plan during install			Initials
Job Site Safety Quiz (take online)			
Flootwicel Cofee	Deter	Verified in Portal	
Electrical Safety Identify electrical hazards and how they can be removed or controlled	Date:	vermed in Fortai	SIS
<u>, </u>			Initials SIS
Test components with a multi-meter (A vs. V, DC vs. AC)			Initials SIS
Understand causes of arc flash and how and when to wear PPE			Initials SIS
Demonstrate electrical safety plan during all phases of the install			Initials
Electrical Safety Quiz (take online)			
Electrical Layout and Mounting	Doto	Verified in Portal	
Read and translate single-line diagram to wall	Date:	Vormed in 1 Ortal	SIS
Plan and install electrical Balance of Systems			Initials SIS
Install box fittings and bushings			Initials SIS
Install box littings and businings			Initials
Conduit Bending and Installation	Date:	Verified in Portal	
Cut and ream conduit			SIS Initials
Measure and bend conduit for 90 degree angle			Initials SIS Initials
Measure and bend conduit for offsets and kicks			SIS Initials
Measure and bend conduit for saddle bend			SIS Initials
Install flashing for stub up to manufacturer's specifications			SIS
Install conduit to Code including appropriate strapping and fittings			Initials SIS
Ensure conduit is properly supported on blocks			Initials SIS
Endard contains properly supported on blooks			Initials
Electrical Wiring	Date:	Verified in Portal	
Prepare and execute wire pull			SIS Initials
Strip wire cleanly without "rings" or knicks			SIS Initials
Terminate wire to appropriate torque			SIS Initials
Wire and bond equipment grounding conductor at rails and boxes			SIS Initials
Wire junction box			SIS Initials
Wire AC disconnect			SIS
Wire production meter			SIS

Installation Basics Training Reminders

- · A GRID Alternatives staff person will be on site at all times to answer questions and provide overall supervision and quality control.
- You are not required to do anything that makes you feel unsafe or uncomfortable.
- This sheet is for personal tracking and personal documentation of training experience only. The official record is kept online.
- Contact your local Workforce/Volunteer Coordinator if you feel there are discrepencies in your personal tracking sheet and the official record found in the Volunteer Portal on the My Profile tab at volunteer gridalternatives.org.

Additional Training Resources: https://www.gridalternatives.org/get-training/installation-training-programs/resources