

ISA STAR-C Ethiopia invites you to  
8-day free in-person training

# Solar Photovoltaic Training on Rooftop Solar | Mini Grid

Learn the fundamentals of solar PV system installation, commissioning, operation, and maintenance



## PROGRAMME HIGHLIGHTS

- Fundamentals of Solar PV Technology
- Understanding Grid-tied and Off-grid Solar System
- Wiring & Cabling
- PV System Components
- Tools and Instrument Handling
- Installation & Inspection of Solar PV System
- Commissioning & Operation of Solar PV System
- Hands-on Practice Session
- Exposure Visits to PV Project Site

## LIMITED SEATS | REGISTER AT NO-COST

### SOLAR ROOFTOP

#### Batch 1

10 - 18  
JUNE 2024

#### Batch 2

24 JUNE  
02 JULY 2024

### SOLAR MINI GRID

#### Batch 1

31 JULY -  
08 AUGUST  
2024

#### Batch 2

12 - 20  
AUGUST  
2024

Time: 09:00 - 17:00 hrs

Register here:

<https://forms.gle/HZW1t3q9ob57zSQXA>



## TARGET GROUPS

- ▶ Certified Electricians
- ▶ Early Engineering Students
- ▶ Graduates from TVET/Polytechnic
- ▶ Practicing Electricians



## CERTIFICATION

A certificate will be awarded to participants on successful completion of the course

## ADDRESS

STAR-C Ethiopia  
Addis Ababa Institute of Technology  
King George IV Street, Addis Ababa

## APPLICATION

### Contact

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# Schedule of the in-person training on rooftop solar PV system (STAR-C, Ethiopia)



## Day 1- 4

	Day 1	Day 2	Day 3	Day 4
09:00 - 10:30	Registration I Introduction	Connections of solar PV modules and inverters	Solar inverters used in grid-connected systems (I)	Sizing cables and accessories for grid-connected solar PV systems
10:30 - 10:45	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
10:45 - 12:15	Solar resource and energy demand	Working with tools and instruments for solar PV systems	Practical on wiring diagrams (I)	Installation of PV systems
12:15 - 13:45	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>
13:45 - 15:15	Grid-connected solar PV system configurations and components (I)	Practical on PV modules	Practical on wiring diagrams (II)	Practical of solar PV grid-connected system assembly (I)
15:15 - 15:30	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
15:30 - 17:00	Grid-connected solar PV system configurations and components (II)	Practical on PV modules	Practical on wiring diagrams (II)	Practical of solar PV grid-connected system assembly (I)

## Day 5 - 8

	Day 5	Day 6	Day 7	Day 8
09:00 - 10:30	Practical of solar PV grid-connected system assembly (II)	Electrical tests and commissioning of grid-connected solar PV systems (I)	Operation and Maintenance	Theoretical and practical exam of participants
10:30 - 10:45	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
10:45 - 12:15	Practical of solar PV grid-connected system assembly (II)	Electrical tests and commissioning of grid-connected solar PV systems (II)	PV system inspection (I) [site visit]	Theoretical and practical exam of participants
12:15 - 13:45	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>
13:45 - 15:15	Practical of solar PV grid-connected system assembly (III)	Practical on electrical tests on assembled grid-tied solar PV system	PV system inspection (II) [site visit]	General review
15:15 - 15:30	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
15:30 - 17:00	Practical of solar PV grid-connected system assembly (III)	Practical on electrical tests on assembled grid-tied solar PV system	PV system inspection (II) [site visit]	Closing

# Schedule of the in-person training on solar mini grid (STAR-C, Ethiopia)



## Day 1- 4

	Day 1	Day 2	Day 3	Day 4
09:00 - 10:30	Opening and introduction	Connections of solar PV modules and charge controllers	Connections of solar batteries and inverters (I)	Sizing cables and accessories for off-grid solar PV systems
10:30 - 10:45	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
10:45 - 12:15	Solar resource and energy demand	Working with tools and instruments for solar PV systems	Connections of solar batteries and inverters (II)	Practical on wiring diagrams (I)
12:15 - 13:45	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>
13:45 - 15:15	Off-grid solar PV system configurations and components (I)	Practical on PV modules and solar charge controllers	Practical on solar batteries and inverters	Practical on wiring diagrams (II)
15:15 - 15:30	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
15:30 - 17:00	Off-grid solar PV system configurations and components (II)	Practical on PV modules and solar charge controllers	Practical on solar batteries and inverters	Practical on wiring diagrams (II)

## Day 5 - 8

	Day 5	Day 6	Day 7	Day 8
09:00 - 10:30	Practical on wiring diagrams (III)	Practical of solar PV off-grid system assembly (II)	Operation and Maintenance	Theoretical and practical exam of participants
10:30 - 10:45	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
10:45 - 12:15	Installation of PV systems	Practical of solar PV off-grid system assembly (II)	Electrical Tests	Theoretical and practical exam of participants
12:15 - 13:45	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>
13:45 - 15:15	Practical of solar PV off-grid system assembly (II)	Practical of solar PV off-grid system assembly (III)	PV system inspection [site visit]	General review
15:15 - 15:30	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
15:30 - 17:00	Practical of solar PV off-grid system assembly (II)	Practical of solar PV off-grid system assembly (III)	PV system inspection [site visit]	Closing