

SOLAR ENERGY TECHNICIAN (253)

The institutions having the following requisite infrastructure, may apply for accreditation:

A. Classroom :

Class room for 25 students (Minimum area 225 sq. ft.) should have proper ventilation, well-illuminated black board/white board and availability of adequate furniture and ceiling fans.

B. Workshop :

The size of workshop for 25 students should be at least 25ft. x 20 ft. with adequate lighting, exhaust & ceiling fans. The workshop should have the following Tool/ Equipments/Apparatus or material for Practical Training.

C. Faculty and Supporting Staff :

Faculty & Supporting Staff	Educational/Professional Qualification	No.
Coordinator	Graduate	01
Instructor	B.Sc. Ag./Diploma in Agriculture Engineering or Diploma in Mechanical/Civil/Electrical Engineering and having undergone elective course in non- conventional energy. Or B.Sc./Intermediate with Science subject with two years of experience in installation & maintenance of Solar Energy plants	01
Receptionist cum clerk	Relevant to job	01
Assistant	Relevant to job	01

D. List of Tools and Equipment :

Equipment / tools	Quantity	Equipment / tools	Quantity
Gloves pair leather asbestos	5 pair	Hammer sledge double faced 3 kg	1
Apron/asbestos leather	5	Pipe wrench 25cm	1 each

		and 35cm	
Screen welding helmet type	5	Steel tape 182cm flexible	2
Screen welding hand	5	Welding torches with set of nozzle (Low/High)	1 each
Goggles pair welder	5		
Hammer 0.2 kg with handle	5	Earth clamps	2
Chisel cold flat 19mm	5	Pipe dotter (cap. 50mm dia)	1set
Centre punch 9mm x 17mm	2	Oxy-acetylene torch with cutting nozzle	1set
Dividers 20cm	2	Heavy duty blow pipe with cutting and gouging nozzles	1 set
Caliper outside	2	Electrode holder 400 amps	5
Rules 60cm two fold (inches)	2	Welding rubber hose, Oxygen and acetylene 8mm length	as required
Wire brush 15cum x3.7cum	10	Rubber hose clips	as required
Spark lighter	5	Spindle key (for opening cylinder valve)	2
Chipping screen hand	5	Pressure regulator oxygen double stage	2
Safety boots for welders	5	Pressure regulator acetylene double regulators	2
Square 15cm	2	Glass white 108mm x 82mm	20
Tongs holding 30cm	5	Glasses coloured 108mm x 82mm	10
Shop outfit		Outfit spanner for regulator	2
Steel or nickel chrome rule 30cm	2	Tip cleaner	5 sets
Hammer ball per 1 kg. With handle	2	Rubber hose pipe black and red 5mm (length as required)	1
Chisel cold cross 9mm	5	Leather sleeves	2 pairs

Screw driver 25cm blade and 20 cm blade	2 each	Transformer (continuous welding current) 400amps	2 set
Vice bench 10cm	4	Welding generator DC rotary set 200-300 amps	1 set
Number punch 6mm and letter punch 6mm	2 set	Welding cables (400amps)	Length as required
Hacksaw frame adjustable 30cm	5	Lugs for cables	- do -
Hammering block 5cm thick 60sq.	1	Oxygen cutting machine (line & circle)	1
Magnifying glass 15cm	2	Gas welding table 822 cm x 92cm + 60cm fire bricks on stand with positioner	5
Weld measuring fillet and butt	2	Arc welding table all metal with positioner 122cm x 92cm x 60cm	5
File half round bastard 30cm	5	Trolley for cylinder (HP unit)	2
File flat 35cm rough	5	Bench shear hand capacity up to 5mm	1
Spanner 12mm and 15mm double ended	5	DC grinder 30mm wheel motorized pedestal type	2
Spanner double ended 6mm to 15mm 1.5 mm	1set	Portable drilling machine (cap. 6mm)	1
C clamps 10cm, 15cm, 20cm, 30cm	1 each	Fire Extinguisher	1

E. Physical Facilities :

The institution should have the facilities for Drinking water, bathrooms & toilets.

F. Library :

Library should have a minimum 20 books/articles/magazines etc. in related subject.

G. Batch Size :

Maximum 25 students in one batch. An institution can run maximum 4 batches for this course.

