

ELECTROPLATING

(355)

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

A. Class Room :

Class room for 20 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. Lab cum Workshop :

The size of workshop for 20 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:

List of Tools and Equipments

Sl. No.	Equipment/tools	Quantity	Sl. No.	Equipment/tools	Quantity
1.	Canvas apron	5	13.	Gold plating vat enameled iron (small size)	1
2.	Respirator	5			
3.	Goggles	10	14.	Grinder with high revolution emery wheel.	1
4.	Gum boots rubber	3 pairs	15.	Motor polisher (4 bearing type)	1
Shop out fit			16.	Barrel plating outfit for nickel	1
1.	Vice hand 50mm jaw	2	17.	Burnishing set 150mm to 200mm	1
2.	File flat 200mm 2 nd cut & File flat 200mm smooth	2 each	18.	Polishing barrel outfit for nickel Polishing barrel 45 x 90cm	1 each
3.	Cutting Pliers insulated 200mm	2	19.	Dippling basket 200mm dia x 25mm	1
4.	Bradawl	2	20.	Plating basket 45cm x 130cm	1
5.	Electrical - knife double bladed	2	21.	Open ended plating barrel & Plating basket 45cm x 30cm x 130cm	1 each
6.	Leather chamois piece 50mm x 60cm	4	22.	Plastic siphon 12mm dia	1
7.	Brush hand scratch	8	23.	Nickel comparator test set	1
8.	Bob felt 200mm & Bob stitched 150mm dia	16 each	24.	Jet test apparatus	1
			25.	Buffing machine in spindle with meter bearing motored	1
9.	Mop polishing & Mop dresser	16 each	26.	Plastic siphon 12mm dia	1
			27.	Adjustable resistance board with voltmeter volt & ammeter. Suitable for each vat for voltage current control	9 nos.
10.	Dresser emery	1			
11.	Tong flat jaw 100mm length	4			
12.	Cleaning tank 100x60x45cm	1			

28	Basin 300mm enamel	6	36	Electroplating rectifier three phase set to operate from 380/440 volts. 50 cycles, 3 phase a.c. supply 16 volts. d.e. with an out put of 500 amperes. dc. voltage adjustable from 3.5 to 16with 63 step on load, complete with the required meter panels and change over switch .
29.	Glue pot 1 kg	1		
30.	File 2 nd cut half round 150mm	4		
31	Exhaust fans minimum	3		
32.	Vat for bright nickel plating lead lined 125cm x 100x60mm	1		
33.	Dull vat for nickel plating lead lined 125x100x60cm	1	37.	Electric heater(silica lined)2 k.w. capacity.
34	Bright vat for chromium plating with outside water jacket 125x100x60cm		38.	Electric heater (lead lined) 2 k.w. capacity
35.	Hard chrome plating vat with Antimonial lead lining with reinforced glass lining 125x100x60cum thermostat controlled attached with outside water jacket.		39.	PH meter

C. **Physical Facilities** : The institution should have the facilities for Drinking water, Bathrooms & Toilets.

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

E.. **Faculty & Supporting Staff:**

Faculty & Supporting Staff	Educational/Professional Qualification	No.
Coordinator	Graduate	01
Instructor	I.T.I./Community Polytechnic/NIOS or equivalent Certificate in Chemical Engineering with 2 years experience	01
Receptionist cum clerk	Relevant to job	01
Assistant	Relevant to job	

F. **Batch size** - Maximum 20 students in one batch.

Note : An institution can run Maximum 2 batches for this course.