

WORLD OF WORK SERIES

APPRENTICESHIP TRAINING SCHEME

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Introduction

Ever since India achieved Independence, the Nation plunged into a new era of Planned industrialisation. In order to bridge up the gap of more than 200 years of stagnation the country had resorted to the application of one of the most effective tools of economic progress i.e. industrial development through Five Year Plans. But the industrial development did not come by itself, the magnitude of other Socioeconomic problems have to be solved before tangible results are achieved. The biggest of these problems was the problem of Human Resource Development, the qualitative and quantitative aspects of the persons engaged in production process. It is much easier to build Steel Plants, construct Dams and Bridges and manufacture Ships and Acroplanes than to develop the human beings. Human beings are developed through a long process of education and training which is time consuming. Systematically training the manpower is vital for Industrial Development and Productivity. Keeping in view the fast technological changes that are taking place, it has become necessary to ensure that training keeps pace with technological developments.

One of the earliest National Training Scheme started by Directorate General of Employment and Training was the introduction of the Craftsmen Training Scheme for training of semi skilled and skilled workers. However, with the changing needs of the Industry the skills developed by the trainees in the Industrial Training Institutes were not sufficient and as such training on the job through formal Apprenticeship Training is the only answer. Keeping this in view the Apprentices Act 1961 was enacted in December 1961. The act was implemented with effect from January, 1963 and provides for the regulation and control of training of apprentices in industry and matters connected therewith. The Apprentices Act 1961 has the following objectives:—

(i) To regulate the programme of training of apprentices in industries so as to conform to the syllabi.
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period of training etc. prescribed by the Central Apprenticeship Council and

(ii) To utilise fully the facilities available in industries for imparting practical training with a view to meet the requirements of skilled workers in the country.

Under the Apprenticeship Training Programme following Categories of Apprentices are covered:—

- (i) Trade Apprentices
- (ii) Graduate Engineering apprentice including sandwich courses students.
- (iii) Technician apprentices (for diploma holders in engineering discipline) including sandwich courses students.
- (iv) Technician (vocational) Apprentices for 10+2 vocational stream students.

The implementation at the Apprenticeship Training Programme relating to the training of trade Apprentices in the Central Sector is monitored by the Ministry of Labour (DGE&T) through six Regional Directorate of Apprenticeship Training located at Calcutta, Chennai, Faridabad, Hyderabad, Kanpur and Mumbai. The implementation in the State Sector & Private Sector in respect of training of trade apprentices is monitored by respective State Apprenticeship Advisers. The duration of the training for trade apprentices varies from 6 months to 4 years depending upon the requirement of the trade. Engagement of the apprentices is normally done twice a year during February/March and August/ September. In 1973 the Apprentices Act 1961 was amended so as to bring within its purview the training of Graduate Engineers and Diploma Holder apprentices. The act was again amended in September, 1986 to include in its purview the students coming out from 10+2 stream of education called the Technician (Vocational) Apprentice. The act was further amended in 1997 to improve the performance of the scheme qualitatively and quantitatively by defining the definition of establishments, worker, giving flexibility to industries for engaging the apprentices etc.

The training of Graduate Technician and Technician (Vocational) apprentices is monitored by Ministry of Human Resources Development, Department of Education through four Regional Boards of Apprenticeship Training located at Calcutta, Chennai, Kanpur & Mumbai. But the overall responsibility for the Apprentices Act rests with the Central Apprenticeship Advisor in the Ministry of Labour.

Basic Training

In case of fresher engaged as trade Apprentices the training consists of basic training followed by on-the-job or shop floor training according to the syllabus of trade. The courses of basic training are the same as for Industrial Training Institutes, in case there is a corresponding trade under the Craftsmen Training Scheme. There are, however other trades also which are not available under the Craftsmen Training Scheme such as Chemical, Printing and Hotel & Catering trades, basic training in such trades is imparted in Basic Training Centres managed by Central Government or respective State Government or concerned establishments.

A group of establishment can join together in establishing basic training centre where basic training to their apprentices can be imparted. Normally basic training is imparted at the nearest Industrial Training Institute in consultation with the Principal of that Institute, if facilities are available. The recurring costs (including the cost of stipends) incurred by an employer in connection with basic training imparted to trade apprentices is to be shared at the rate of 50:50 by the Establishment and appropriate Governments in case the total strength of the employees in an establishments is less than 250. In case of employers employing more than 250 workers, entire cost of basic training is borne by the employers. They will arrange basic training in a separate place, with class room facilities, but this should be imparted by trained instructors strictly as per the syllabi and operations prescribed.

Shop Floor Training

This part of the training is to be given by the employers in their own workshops. Suitable arrangements, such as appointment of instructors, provision of machinery and equipment are to be made to impart shop floor training. Care must

be taken to ensure that all the operations pertaining to a particular trade and as listed in the syllabus are thoroughly tearnt by the apprentice so as to make himself independent and competent in performing his job at later stage in his working life.

Related Instructions

As apprentice while undergoing shop floor training in an establishment a course of theoretical related instructions appropriate to the trade as per the course approved by the Central Government, with a view to giving the apprentices such theoretical knowledge as he needs in order to become a skilled craftsmen.

Related instructions are to be imparted at the cost of appropriate Government at the rate of Rs. 30 per trainee per month. All facilities for imparting training such instructions are provided by the employer.

Every employer of the 218 not fied industries under Apprenticeship Act is required to engage trade apprentices in accordance with the ratio of trade apprentices to workers other than the unskilled workers prescribed for each designated trade as well as the training facilities available for apprenticeship training in the designated trade. There are 128 designated trades in which apprenticeship training is imparted in industrial establishment of Central and State (See details at Annexure-I). The persons who have successfully completed institutional training in the appropriate trades or analogous trades with common course contents in the institutes affiliated by the National Council of Vocational Training are provided corresponding rebate in the period of Apprenticeship Training in the corresponding trade. The duration of training varies from 6 months to 4 years for different designated trades. The minimum age prescribed under the Rules is 14 years and there is no maximum age prescribed. About 25000 establishments under the public and private sector are now imparting training to apprentice throughout the country.

Recruitment and Selection of Apprentice

The responsibility for engagement of apprentices solely lies with the establishment and concerned establishment may

invite list of candidates from any Channel such as, through advertisement, from ITI, employment exchanges.

Similarly the candidates can also contact the employer, ITI principal, employment exchanges for engagement as apprenticeship. The employers can also take the assistance of nearest Employment Exchange or the Principal of the Industrial Training Institutes for furnishing them the names of suitable candidates for enrolment as apprentices.

Apprenticeship Contract

The entire training programme under the apprentices act is controlled under the provision of apprenticeship contract between the employer and the apprentices. The Apprenticeship contract is registered with concerned Apprenticeship Adviser and is a legal document. In case any dispute arises, the same is to be referred to the Apprenticeship Adviser whose decision will be binding on both the parties.

Novation of Contracts

In case an establishment is closed, the apprentices of that establishment can be shifted to another establishment by the Apprenticeship Advisers and renewed contract is signed between new employer and apprenticeship trainee undergone by the apprentice with previous employer will be included in the period of apprenticeship to be uncertaken with the new employer.

Stipend

During the period of apprenticeship training the Graduate Engineer, Diploma Holders, Trade Apprentices and Technician (Vocational) apprentices are paid at the minimum prescribed rates. The current rates of stipends payable by the employers to the apprentices are given below:—

Trade Apprentices	
During the first year of training	Rs. 580 p.m.
During the second year of training	Rs. 670 p.m.
During the third year of training	Rs. 770 p.m.
During the fourth year of training	Rs. 880 p.m.

Croducte and Technician Apprentices

(a) Engancering graduates

Rs. 1400 p.m. (for post institutional Training)

- (b) Sandwich course students from degree institution Rs. 1000 p.m.

(c) Diploma Holders

Rs. 1000 p.m. (for post institutional Training)

(c) Sandwich course students from Diploma Institu- Rs. 810 p.m.

For Technician (Vocational) Trade for 10+2 Vocational stream

Rs. 770 p.m.

The stipen s of the Graduate Engineers and Diploma Holders are shared equally between the Ministry of Education and the concerned employers. The stipend of all categories of apprentices is generally revised after every two years.

Trade Test Certificate

At the end of the training period every trade apprentices is required to appear in an All India Trade Test for apprentices conducted by the National Council for Vocational Training in the prescribed subject alongwith practical test. These tests are conduced twice a year i.e. in April and October. The apprentices who successfullly pass this trade test are awarded a certificate by he National Council for Vocational Training which is a recognised certificate for the purpose of employment under the Government.

In order to promote a healthy competition among the apprentices as well as establishment, an All India Apprentices Skill Competition in 11 trades namely-Fitter, Machinist, Turner, Welder, Mechanic (Motor Vehicle), Electrician, Tool & Djemaker, Electronics Mech., D/Man Mech., Mill Wright/ Mech. Maintenance, Instrument Mech. is held after every All India Trade Test. The apprentices securing the highest qualifying marks at the All India level is awarded a cash prize of Rs. 10000 and a Merit Certificate. The establishment whose apprentices secure the highest marks in all the 11 trades put altogether in a particular year is awarded a Running trophy and a certificate of Honourable Mention from the President

of India. The All India Skill competition are preceded by Regional Competitions in all the above trades and a Merit Certificate is awarded to the best establishments as well as to the best apprentice in each trade at the Regional level also.

Obligation of Employees

Under the Apprentices Act, 1961 the employers have the following obligations: --

- (i) To provide the apprentices with training in their trades in accordance with the provisions of this act and the rules framed there under.
- (ii) If any employer is not himself qualified in the trade, he should ensure that person possessing the prescribed qualification is placed incharge of the training of the apprentices.
- (iii) An employer is required to carry out all his obligations under the contract of Apprenticeship training.
- (iv) An employer is required to engage certain number of apprentices as fixed by the concerned Apprentices Adviser and he must ensure that the quota expected of him is filled up without any delay.
- (v) There is a reservation of Scheduled Castes and Scheduled Tribes and the employer must ensure that the reservations if applicable to his establishment, must be adhered to.

In the case of Graduate and Technician Apprentices, 88 subject fields in Engineering and Technology have been specified. The period of training for Graduate Technician and Technician (Vocational) Apprentices is one year. 60 subject fields have been specified for the benefit to pass out students from 10+2 vocational stream for training in Industry as Technician (Vocational) Apprentices. The Training for Graduate, Technician and Technician (Vocational) apprentices is organised in accordance with the training programme approved by the Directorate of Regional Board of Apprenticeship Training under Ministry of Human Resources Development.

Details of Trades Unders Apprenticeship Training Scheme

Designated Trades	N.C.O. Code No.	Ratio of appren- tics to workers other than unskilled workers	Period of training	Relevant I.T.I. trades	Rebate allowed in apprent training	Essential/Destrabiling Educational Qualifications
2	3	4	5	6	7	
No. I Machines	ionical				,	8
		121 122				
	0.4% 113	1 :7	3 years	Fitter (+Shipwright Steel)	2 years	Passed 10th under 10-
	842,15			Millwright Mainte- nance Mechanic	1 year	its equivalent
					1 year	
				4. Maint. Mech. (Textile		
					- 1 year	
				6. Fitter Structural	1 year	
				7. Boiler Attdt.		
					1 year	
	Trades	2 3 No. 1—Machine shoptrades Fitter 842.10	Code No. of apprentices to workers other than unskilled workers 2 3 4 No. 1—Machine shoptrades Fitter 842.10 1:7	Code No. of approntices to workers other than unskilled workers 2 3 4 5 No. 1—Machine shoptrades Fitter 842.10 1:7 3 years 842.15	Trades Custe No. of apprentices to workers 2 3 4 5 6 No. 1—Machine shoptrades Fitter 842.10 1:7 3 years 1. Fitter (+Shipwright Steel) 842.15 2 Millwright Maintenance Mechanic 3. Tool and Die-Maker 4. Maint. Mech. (Textile Machinary) 5. Mech. (Dairy-Maintenance) 6. Fitter Structural 7. Boiler Attdt. 8. Moter Mech.—Body	Code No. of apprentices to workers 2 3 4 5 6 7 No. 1—Machine shoptrades Fitter 842.10 1:7 3 years 1. Fitter (+Shipwright Steel) 842.15 2 Millwright Maintenance Mechanic 3. Tool and Die-Maker 1 year 4. Maint. Mech. (Textile Machinary) 5 Mech. (Dairy-Maintenance) 6 Fitter Structural 1 year 7. Boiler Attdt. 1 year 8. Moter Mech.—Body 1 year

					9. Millwright (Rolling	l year	
					Mills) 10. Mech. Mining	l year	
		1			 Rigger (Engg. & Chemical Industries 	1 Mann	
					12. Maint. Mech. (Leather Machinery)	l year	
2	Turner	835.15	1:7	3 years	Turner	2 years	Passed 10th class under
3	Machinist	835.10	1:7	3 years	Machinist		10+2 system or its equivalent.
4	Machinist (Grinder)	836.10				2 years	-do-
		836.25 836.30 836.35 836.40 836.55		2. Turner	2 years 1 year 1 year	Passed 10th with Science an Maths, 10+2 system Education or equivalent.	
Foup	No. 2-Foundry Trades						
1	Pattern Maker	819.20	1:7	3 years	Pattern Maker	2 years	Passed 8th class Exam
2	Foundrymar -	726.10 725.70	1:7	3 years	Foundryman	l year	nation under 10+2 system of Education or its equiva- lent.
Group	No. 3—Metal Working,						
1	Forger and Heat Treater	123.80 726.90 831.10 831.30 831.50	1:7	3, years	Forger, and Heat Treater	l year	Passed 10th class exami- nation under 10+2 system or_its equivalent.

-1	2	3	4	5	6	7	8
2	Sheet Metal Worker	837.10	1:7	3 years	Sheet Metal Woker	t year	Passed First class exami- nation) under 10±2 or its equival st.
3	Welder (Gas and Elec- tric)	872.10 872.20	1:7	2 years	Welder (Gas and electric)	l year	Passed 8th class examinat- tion under \$10.42 system of education of di- equivalent.
4	Motor Vehicle Body Builder	815.10	1:7	2 years	Forger and Heat Trea- ter Sheet Metal	l year l year	Passed 10th class examina- tion under 10+2 system of Education or its equiva- lent
roup	No. 4—Electrical Trades						TO THE STATE OF TH
1	Electrician	851.10 851.30	1:7	3 years	Electrician	2 years	Passed 10th class Exami- nation under 10 - 2 system with Science as one of the
	Lineman Wireman	857.10	1:7	3 years	Wireman Electrician	l year l year	Passed 8th class examina- tion under 10-2 system of education or its equivalent
	Auto Electrician	855.10	1:7	3 years	Wireman	2 years	Passed 10th class Examina- tion under 10+2 system with Science as one of the
	Acto Electrician	855.30	1:7	2 years	Mechanic (M.V.) Electrician	l year l year	subjects or its equivalent, -do-

5	Electrician Aircraft	855.20	1:10	4 years	Electrician	2	years	Passed 10th class Exami- nation under 10+2 system of Education with Science and Maths as Subjects or equivalent.
6	Winder (Armature)	859.50	1 :7	3 years	Electrician	2	years	-do-
7	Cable Jointer	857.30	1:2	3 years	Wireman	6	months	Passed 10th class examina- tion under 10 +2 system of Education with Science as a subject or its equivalent,
8	Electrician (Mines)	851.15	1:10	3 years	Electrician	2	уецть	Passed 10th class examination under the 10-2 sprtem of Education with Science (Physics and Chemistry) as one of subjects or equivalent.
9	Electroplater	728.10	1:7	3 years	Electroplater		70305	-do-
Group	No. 5—Building And Furniture Trade							
1	Carpenter	811.10 811.20	1:7	3 years	Carpanier		I year	-do-
2	Plumber	871.10	1:3	3 years	Plumoer		l year	Passed 5th class examina- tion under 10+2 system of Education or its equiva- ions.
3	Mason (Building Con- structor)	951.20	1,7	1 year	Building Constructor		i year	de

1	2	3	4	5	6	7	8
4	Furniture and Cabinet Maker	812.10 812.20	1:7	3 years	Carpenter	1 [™] year	Passed 8th class examination under 10+2 system of Education with Science as subject or its equivalent. Desirable: Passed in 10th class
5	Sports Goods Maker (Wood)	819.70	1:5	2 years	Sports Goods Maker (Wood)	1 year	Passed 8th class examina- tion under 10+2 system or Education or its equivalent.
Group	No. 6—Maintenance Trade						
1.	Millwright Maintenance Mechanic	845.63	1:7	3 years	Millwright Maintenance Mechanic	2 years	Passed 10th class examina- tion under 10+2 system of Education with Science and Maths as subject or its equivalent.
2	Mechanic Maintenance (Textile Machinery)		1:7	3 years		y:	Passed 10th class examina- tion under 10+2 system of education with Science (Physics and Chemistry) subject or its equivalent.
3	Mechanic Maintenance (Chemical Plant)		1:7	3 years	Mechanic Maintenance (Chemical Plant)	2 years	Passed 10th class examina- tion under 102 system of Education with Science & Maths as subjects or its equivalent.
4	Mechanic (Dairy Main- tenance)	845.55	1:7	3 years	Pitter Tool & Die Maker Ref. and Air-conditioning Mechanic	1 year	-do-

	5 Mechanic Sewing Ma- chine	945.82	1:4	l year	Fitter	6 months	Passed 10th class examina- tion under 10+2 system of Education or its equivalent.
	6 Mechanic (Mining Ma chinery)	- 845.60	1:10	3 years	Fitter	l year	Passed in 10th class exami- nation with Science (Phy- sics and Chem.) as subject under 10+2 system or its equivalent.
Grou	p No. 7—Precision Mach ining Trades	-					
1	Tool and Die-Maker (Die & Moulds)	833.10 833.40	1:2	4 years	1. Tool and Die-Maker	2 years	Passed 10th class examina- tion under 10+2 system of Education with Science and Maths as subjects or its equivalent.
					2. Fitter	1 year	
					3. Turner	1 year	
					4. Machinist	1 year	
					5. Machinist (Griader)	1 year	
2	Tool and Die-Maker (Press Tools, Jigs & Fix- ture.	833.10 833.41	1:2	4 years	-do-	-do-	-do-
3	Plastic Mould-Maker	833.40 901.30	1:7	4 years	1. Tool and Die-Maker 2. Fitter	2 years 1 year	-do-
Group	No. 8—Instrument Trades					- 7000	
1	Instrument Mechanic	841.15	1 :3	3 years	Instrument Mechanic	2 years	Passed 10th class examina- tion under 10+2 system of Education with Science as one of the subjects or its equivalent.

	1 2	3	4	5	6	7	8
2	2 Mechanic (Instrument Aircraft)	841:15	1:10	4 years	Instrument Mechanic	2 years	Passed 10th class examina- tion under 10+2 system of Education with Science and Mathematics as subjects or its equivalent.
3	Mechanic Watch and Clock	841.10	1:3	3 years	Mechanic Watch and clock	2 years	Passed 10th class examina- tion under 10+2 system of Education or its equivalent.
3 oup	No. 9—Refrigeration an Air-Conditionir Trades						
	Refrigeration and Air- Conditioning Mechanic	845.70	1:3	3 years	Refri. and Air-Condition- ing Mechanic	2 years	Passed 10th class exami- tion with Science (Physics and Chemistry) and Mathe- matics under the 10+2 system of education.
roup	No. 10—Heat Engines Trades						
1	Mechanic Motor Vehicle	753.27	1;4	3 years	Mechanic (Motor Vehicle	2 years	Passed 8th class examina tion or its equivalent.
2	Mechanic (Diesel)	845.13	1:4	3 years	Mechanic (Diesel)	1 year	Passed 8th class examination or its equivalent.
3	Mechanic (Tractor)	845.20	1:3	3 years	Mechanic (Tractor) Farm Mechanic	l year	Passed 8th class examination or its equivalent Desirable: Passed 10th class under the 10-2 system with Science as one of the subjects or it equivalent.

	4	(Earth Moving Machi- nery)	735.41	1:1	4 years	Mechanic (Tractor) Mechanic (Agricultural Machinery)	year	Passed 10th class examina- tion under 10+2 system of Education or its equivalent.
	5	Mechanic (Marine Diesel Engines)	845.13	1:4	3 years	Mechanic Diesel	l year	
	6	Driver-cum-Fitter	843.50 986.55¶	1:15	3 years	Mechanic (Motor vehicle)	l year	Essential: Passed 2 Standard below SSLC or passed 8th class examination or its equiva-
	7							lent under 10+2 system of Education. Desirable: Passed 10th class examination under 10+2 system of education or its equiva-
		Auto Mechanic (Two Wheeler/ Three Wheeler)	843.20 843.30 843.50 843.60	1:4	2 years	Mechanic (Motor Vehicle)	1 year	Passed 8th class examina- tion or its equivalent.
G	roup	No. 11—Draughtsmen au Survey Trades	d					
	1	Draughtsman (Civil)	030.20	1:10	3 years	Draughtsman (Civil)	2 years	Passed in 10th class exa-
								mination under 10-2 sys- tem with Science and Ma-
	2	Draughtsman (Mecha- nic)	030,40	1:10	3 years	Draughtsman (Mech.)	2 1000 Pm	thematics as subjects.
	3	Surveyor	028.10 037.10 037.20	1:14	3 years	Surveyor	2 years 2 years	-do-

1	2	,	4	5	6	7	3
Grou	p No. 12—Construction 7	rades					
1	Fitter Structural	874.65	1:7	3 years	Fitter	1 year	Passed in 10th class exami- nation under 10-2 system with Science and Mathe- matics as Subjects
Group	No. 13-Power Plant Tr	ades					
1	Boiler Attendant	962.20	1:2	3 years	Fitter	6 months	-do-
2	Steam Turbine cum Auxiliary Plant Operato	961.30 or	1:4	3 years			Passed 10th class examina- tion under 10.4-2 system of Education or its equivalent
3 Group	Switch Board Attendar No. 14—Printing Group		1:4	3 years			Passed 10th class examina- tion under 10+2 system of Education with Science or its equivalent.
	e Setting Group						
1	Lino Operator	922.10	1:7	3 years	Hand Compositor	1 year	-do-
2	Mono Keyboard Operator	922.20	1:7	3 years	-do-	1 year	-do-
3	Mono Caster Operator	922.30	1:7	2 years	-do-	1 year	-do-
i) Pho	to Mechanic Group:					, , , , , ,	
1	Process Cameraman	926.10	1:5	3 years			Passed 10th class exami- nation with Physics and Chemistry as subject under 10+2 system of Education
2	Retoucher Lithographic	925 10	1:5	2			or its equivalent.
3	Engraver	926.50	1:5	3 years 3 years			-do-
ii) Bin	ding Group:			- Jeans			-do-

	Book Binder	927.10	1:5	2 years	Book Binder	1 year	Passed 8th class examina- tion or under 10-2 system
							of Education or its equiva-
	(iv) Litho Offset Grou	1p:					
- 1	Plate Maker (Lithographic)	926.40	1:5	2 years	_	_	Passed 10th class examina- tion under 10+2 system of Education with Physics and Chemistry as subjects or its equivalent.
2	l litho Offset Machine Minder	923.50 923.60	1:7	3 years	_	-	-do-
Gro	up No. 15—Hotel and Ca	atering Trac	des				
1	Cook (General)	520.20	1:5	3 years	Cook (Vegetarian)	1 year	Passed Matriculation or its equivalent or 10th class
							under 10-2 system of edu- cation.
2	Cook (Vegetarian)	520.20	1:5	1½ yrs.		-	-do-
3	Steward	521.40	1:5	1½ yrs,	_	_	Passed in Matriculation
							examination or its equiva- lent or 10th class under
4	Baker and Confectioner	770.10	1:5	2 years			10+2 system.
5	House Keeper	510.10	1:5	1 yrs.			
6	Hotel Clerk or Recep-	352.10	1:5				-do-
	tionist or Front Office Asstt.	332.10	1.3	l∄ yrs.	_	_	Essential—Passed in Ma- triculation examination or
							its equivalent or the 10th class under 10+2 system.

1	2	1	4		K		
Gro	rup No. 16. Textile Trade Weaver	755 50):50	6 month			Expension Process Fris class and relations of two process inductions of two class relations on the advance- mation of an appropriate of
							Display Parent III claims and the continuation another 10 \(\frac{1}{2}\) systems \(\frac{1}{2}\) Educations of the equivalent
2	Doffer-cum-Piecer	752 65 757 40	1:50	6 month	4		Feenful Pasted Rb class or in squaratest.
3	Tenter (Drawing Speed Fly Frames)	752 10 752 15 752 20	1125	6 month			do-
4	Winder (Textile)	752 70	1:50	, 6 month	5		-do-
41	Knitter (Hosiery)	757.10 757.15 757.20 757.25 757.30	1:4	H yrs.			Passed 10th class interning- tion under 10 = 2 system of Education or its equivalent.
6	Printing Textile	758.36 758.32 758.34	1:10	6 month	-		Passed 8th obses or its eggs- valent upder 100-2 system of Edisoption.
	7 Creci Boy-cum-Warper	753.50	13	6 months			Passed 10th June emercing- tion under 10 - 3 system of Edinfactors or its equiva- lect.
	t Sirdar (Criffiery)	710 50	134	3 years			Parend 10th claim number section under the 2 system of Echtoathon with Science. Physics and Chemoatry: as softent or in spul-biens.
	Scotter Waster Mines	714.10	1.7	2 30003			Passed 1986 stars magazine Son under 19-1 system of Education or to oppositely.
23	Mate (Minus)	710 40 715 90	1:10	3 years			Passed 19th under 10 - Jupa- ture with fictions (Physics and Chemistry) as my of the solitons of the aparticles.
Cir	roug No. 18 -Chemical Tri	tries					
	(C.P.)		1:10	5 years	Attendact Operati N. Sc.	e (C.P., 1 pages	Passed 1000 umber 10 / system with Screpper (Phys- ses and Chemistry) bluries or subjects or passent/chiese

1	2		3	4	5	6	7	8
	733 10, 733 15, 733 20 733 40, 733 45, 733 50							.0
	744 90 734 10 734 15							
	714 25 730 20 730 55							07
	741 15 741 20 741 30 741 60 741 70 742 10	3					6 months	Passed B.Sc. with Physics
	747 70 747 30 742 40						311365555555	Chemistry & Mathematics as subjects.
	747 60 747 90 743 10							
	743 30 743 40 744 10 744 20 744 30 744 40							
	744 50 745 10 740 30							
	749 14, 749 42 773 50							
	749 67, 749 64 749 68							
	740 77 749 74 749 76 749 80 749 82 749 84							
	740 86, 749 88, 773 13							
1	71 71 777 40 771 45							
1	77 57, 777 60 777 65							
7	75 30, 775, 35 775 40							
7	75 45 775 65 776 20 76 50 893 10 893 33							
Q	07 10 902 20 902 30							
Q	02 50 903.10, 903.20							
In	strument Mechanic	841	20	1.0	210000000			
(((P.)	841		1:3	3 years	Instrument Mechanic	2 years	Passed 10th under 10+;
		851.				(Chemical Plant BSc)		system with Science (Phy
								sics and Chemistry) and
							11 years	as subject or its equiva- lent.
								Passed P.Sc. with Physics
								and Chemistry as sub- jects,

	Laboratory Assistant (C.P.)	010.30 034.10 034.30 034.50 035.10 083.10	1:4	3 years	Laberatory (Assistant) B Sc	2 years 1½ years	do	
	Fibre Reinforced Plasti Processor		1:5	2 years	Plastic Process Operator	l year	Passed 10th class examina- tion under 10+2 system or its equivalent.	100
5	Plastic Processing Op- erator	901.20 901.25 901.30 901.35 901.40 901.45 901.50 901.55 901.60	13	2 years	-00-	l year	-do-	

		2	3	4	5	6	7	8
~	N.T	o. 19—Cutting and	Tailoring	Trades				# X255.00 # # # # # # # # # # # # # # # # # #
	-Do	signer and Master	794 . 40 794 . 60	1:5	2 years	Cutting and Tailoring	1 year	Passed 10th under 10+2 or its equivalent.
2	1.77	lor (Men)	791.30 791.40 791.50	1:4	I dyears	Cutting & Tailoring	i y e ar	Passed 8th class examina- tion or its equivalent.
2	Tail	or (Women)	791.20	1:4	1½ years	-do-	1 year	-do-
4		or (General)	791.10 791.90	1:5	2 years	-do-	1 year	-do-
Grou	p No	, 20-Agriculture	Trades					
1		hanic (Agricultural hinery)	345.20	1:7	3 years	1. Farm Mechanic	2 years	Passed 10th class examina- tion under 104-2 system or its equivalent.
		the factors of the				2. Mechanic (Tractor)	1 year	42722
2	Hort	iculture Assistant	053.20	1:7	2 years			-do-
3	Stoc	kman (Dairy)	082.10 082.20	1:7	2 years	=		Passed 10th class examina tion under 10 +2 system of Education with science
4	Atte	ndant Operator ry)	776.10 776.20 776.30	1:7	3 years			Passed 10th class exami nation under 10+2 system of Mucation with Science
			776.40 776.50 776.60 776.70 776.90	30				and Mathematics or its equivalent,
			\$1 X					20 00
			3.50	9				

5	Pump Mechanic	845.57	1:5	2 years	Pump Mechanic Fitter	l year l year	Passed 10th under 10+2 system with Science or its equivalent.
Gro	up No. 21-Leather Craft	ts Trades					
1	Sports Goods Maker (Leather)	809.90	1:5	2 years	Sports Goods Maker (Leather)	l year	Passed 10th class examina- tion under 10+2 system or its equivalent.
2	Leather Goods Maker	809.10 809.20 809.30 809.40	1:7	2 years	Leather Goods Maker	l year	Passed 8th class examina- tion under 10+2 system or its equivalent.
3	Footwear Maker	801.10	1:4	2 years	Manufacture of Foot- wear	l year	-do-
4	Finished Leather Maker	761.00	1:3	2 years		1000	
	Maintenance Mechanic for Leather Machinery up No. 22—Ship Building		1:3	3 years	Fitter	1 year	Passed 10th under 10+2 system with Science (Physics and Chemistry) and Maths as subjects or its equivalent.
	Shipwright (Steel)	816.20	1:7	3 years	Ftter	1 year	Essential—Passed 10th under 10+2 system of edu- cation or its equivalent.
		1 1-1					Desirable—Passed SSLC with Science (Physics and Chemistry) and Maths or its equivalent or passed 10th class under 10+2 system with Science and Mathematics as subjects.

871,20	1:7	3 years	Plumber	Lower	Dec. 1 10th condex 10 12
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	l year	Passed 10th under 10+2 system with Science (Phy- sics and Chemistry) and Mathematics or its equi-
					valent.
972.10	1:7	2 years			Essential—Passed the 3th class exam, under 10+2 system or its equivalent.
872.40	1:7	2 years	Welder (Gas and Elec- trical)	1 year	-do-
816.70	1:7	3 years	Carpenter	1 year	Essential-Passed 10th
					class examination under 10+2 system of educa- tion or equivalent.
					Desirable—Passed 10th under 10+2 with Science (Physics and Chemistry) & Mathematics or its equi-
					valent.
852.30 854.50 854.60	1:10	4 years	T.V.	2 years	Passed 10th under 10+2 system with Science (Phy- sies and Chemistry) and
				2 years	Mathematics or its equiva-
200	872.40 816.70 852.30 854.50 354.60	872.40 1:7 816.70 1:7 90.70 90 90.70 90.70 90.70 90.70 90.70 90.70 90.70 90.70 90.70	872.40 1:7 2 years 816.70 1:7 3 years 852.30 1:10 4 years 854.50 854.50	872.40 1:7 2 years Welder (Gas and Electrical) 816.70 1:7 3 years Carpenter 852.30 1:10 4 years Mechanic Radio and T.V.	872.40 1:7 2 years Welder (Gas and Electrical) 816.70 1:7 3 years Carpenter 1 year 856.70 1:7 4 years Mechanic Radio and 2 years 7.V. 852.30 1:10 4 years Mechanic Radio and 2 years 7.V.

2.	Electronics Mechanic	852.20	1:5	3 years	I Flater to NA A		
2				Jeans	Electronics Mechanic Mechanic (Radio and T.V.)	2 years 2 years	~10-
3.	Mechanic Television	854.20	1:7	3 years	1. Electronics Mechani-	c 2 years	1-
- 1	(Video) is Kilp Calaran				2 Mechanic Radio	2 years	-do-
					and T.V.		
GI	oup No. 24—Photography Tr	ades					
1.	Photographer	173_10	1:4	2 years	Photographer	l year	D
					S. P. L.	t year	Passed 10th under 10+2 system with Science (Phy-
							SICS and Chemistry)
0	tale este e						one of the subjects or its
GIG	oup No. 25-Iron and Steel Tr	ades					
1.	Brick Layer (Refractory)	951.30	1:10	3 years	Mason (Building Cons-	I year	-do-
2.	Furnace Operator (Steel	721.55			tructor)		-110-
	Industry)	721.60	1:15	2 years			Passed 10th under 10+2
							system with Science (Physics and Chemistry) and Mathematics or its equiva-
3.	Steel Melting Hand	723.15	1:15	2			lent.
34	Rennician	723.20		2 years			-do-
	nep No. 26-Realtholan 153-	723, 30					
4	Mill Hand	722.15	1:15	7			
		722.25		2 years			-do-
-		-722.35					
5.	Crane Opera tor (Overhead) Steel Industry)	973.45	1:15	2 years			-do-
-							3.34

1 2	3	4	5	6		7	8	
Group No. 26—Beautician Trac	les						Essential Passed Matri-	
1a Beautician	560,30	1:3	2 years				culation examination or its equivalent or 10th dass under 10+2 system with Biology as one of the subjets.	
							Desirable—Passed Higher Secondary or Pre-University Course or plus 2 of 10+2 system with Biology as one of the subjects.	26
2. Hair Dresser	560.10 560.20	1:2	2 years			-	-do-	
Health and Slimming Assistant	089,50	1:3	2 years		×	_	-do-	
Group No. 27-Glass and Ceram	nic Trades							
Ceramic Moulder Ceramic Caster Ceramic Kiln Operator	892.25 891.20 893.30	1:4 1:4 1:4	2 years 2 years 2 years	_		=]	Passed 8th class of 10+2	
Ceramic Press Operator	892.60	1:4	2 years			-	system of education or 2 standard below 10th class or its equivalent.	1
5. Ceramic Modeller	392.10	1.4	2 years	_		— j		

7	Ceramic Decorator Moulder (Refractory)	895.30 892.65	1:4	2 years 2 years	=	- }	-40-
8	Enamel Glazer	895.50	1,:4	2 years			Passed 10th class examina- tion under 10 +2 system with Science as subject or
9	Insulator Maker/Ma- chine Operator Ceramic)	899.44 899.45	1:7	3 years			its equivalent.
10	Optical Worker	891.48	1:7	3 years	Machinist Millwright Mt co. Mechanic Turner Fitter	l year l year l year l year	Passed 10th class under 10+2 system of Education or its equivalent.
Group	No. 28—Painting Trades				5. Machinist (Grinder)	l year	
1	Painter (General)	932,10	1:7	3 years	Painter (General)	2 year	Passed 8th class or its equi-
2	Painter (Marine)	931.20	1:7	2 years	Painter (General)	1 year	valent. Passed 8th class examina- tion under 10 + 2 system preferably with Maths, and
Group	No. 29—Computer Trade Data Preparation &	102 10					Science or Two standard below,
		103, 10	1:5	2 years	Data Preparation and Computer Software	1 year	Passed 12th class examina- tion under 10+2 System of education with Science Commerce as subjects or its equivalent (other thing being equal, professione with being syn to conductes with higher qualifications)

∞	Passed B.Sc. with Physics and Chemistry as compulsory and Mathematics as desirable subject.	Passed Higher Secondary Examination with Physics. Chemistry and Biology under (10+2) system of Education or its equivalent.	Passed Higher Secondary examination under (10+2) system of education with Physics, Chemistry and Biology.
7			
9	22		S
5	1½ years	2 years	2 years
4	7.	1:5	1:5
3	730.20 740.10 740.90 770.90 900.10 730.90 740.20	ic 039.10 039.90	086.10 s 088.10 fth 089.90 098.90
2	Group No. 30—Hi-Tech Trade I Advanced Attendant Operator (Process)	Operator cum Mechanic 039.10 Pollution conrol Equip- 039.90 ment	Machanic Medical 086,10 equipment for Hospitals 088,10 and Occupational Health 089,90 Centre
	Group 1	2	m

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