

1	Name of Syllabus	C. C. IN HOUSE PIPE FITTING. (303111)																																									
2	Max.Nos of Student	25 students																																									
3	Duration	6 Month																																									
4	Type	Part Time																																									
5	Nos Of Days / Week	6 Days																																									
6	Nos Of Hours /Days	4 Hrs																																									
7	Space Required	Workshop = 300 Sq feet Class Room = 200 Sq feet TOTAL = 500 Sq feet																																									
8	Entry Qualification	7 <sup>th</sup> passed																																									
9	Objective Of Syllabus/ introduction	Introduction – the syllabus of House Pipe Fitting has been evolved in such a way that after completion of course of 6 Months , the student would acquire good working skill suited to work as Plumber. <b>Objective:-</b> 1) Develop skills as Plumber 2) Finding water leakage problem & their remedies. 3) Provide adequate knowledge of maintenance. 4) Handling & uses of different types of tools.																																									
10	Employment Opportunity	SELF-EMPLOYMENT : WAGE –EMPLOYMENT																																									
11	Teacher’s Qualification	ITI /NCVT Plumbing with 2 year experience from technical High school/ITI’s.																																									
12	Training System	<div>Training System Per Week</div> <table><tr><td>Theory</td><td>Practical</td><td>Total</td></tr><tr><td>6 Hours</td><td>18 Hours</td><td>24 Hours</td></tr></table>							Theory	Practical	Total	6 Hours	18 Hours	24 Hours																													
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## **CURRICULUM :- HOUSE PIPE FITTING**

### **THEORY PAPER - I :- HOUSE PIPE FITTING**

1. DIFFERENT TYPES OF Pipes (GI or CI) and Pipe fittings for water supply, their specifications and use.
2. Different types of pipes (Plastic) and pipe fittings for water supply and their specification an use.
3. For joints for water plastic pipes and joints.
4. Procedure to be adopted while making joints in water pipe.
5. Brief idea of inspection chamber, man holes, intercepting chamber and ventilating pipes and their use.
6. Precaution, testing of pipes lines, use of Plumber tools, their care and maintenance.

### **PRACTICALS - I PLUMBING**

1. Fittings :- Use of hand hacksaw for cutting pipes, cutting pipes, flat iron rod, M'S Plate, etc.
2. Use of various files for various purposes exercises involving use of various files.
3. Plumbing :- Cutting of pipes of required length making threads on a given piece of pipe, Jointing GI pipes, Plastics pipes by suitable methods, Jointing of CI Pipes, etc.
4. Exercises involving the fitting of various pipe fittings.
5. Layout of water pipe connection.
6. Study of various types of valves.

### **PRACTICALS - II ( PLUMBING INSTALLATION )**

7. Storage tank pipe fitting.
8. Installation of W/C with flush pipe fitting.
9. Installation of wash basin.
10. Installation of bath tub with hot & cold water connection.
11. Method of arranging the waste outlets for urinals & flushing arrangement.

#### 4 List of equipment/machinery

1 Try square	04 nos
2. Pipe wrenches	04 nos
3. Hand drills	04 nos
4. Mortise chisel	04 nos
5. Plane jack	02 nos
6. Cutting pier	04 nos
7. Tap and sly set	04 nos
8. Washer cutter	04 nos
9. Smooth and rough files	04 nos
10. Screw drivers 15 cm	04 nos
11. Hack saw frame adjustable 30 cm	04 nos
12. Spirit level	01 nos
13. Polythene tube to check levels	02 nos
14. Trammel etc.	04 nos
15. Ball pain hammer 0.45 kg.	04nos
16. Steel rule 300mm	04 nos
17. Screw driver 300x9 mm	04 nos
18. Spanner D.E Set of metric 6/32	1 Set
19. Ring Spanner set 6/32	1 set
20. Hack saw frame adjustable	5 nos.
21. Socket box spanner 6/32	2 set
22. Oil can	4nos
23. Spirit level	2 nos
24. Singe cut file 15 cm .	4 nos
25. Double cut triangular file 15 cm	4 nos
26 Square file 15 cm	4nos
27 Flat file double cut	4 nos
28 Round file 30 cm	4nos
29. Locker drawer with stand. size (8 –drawer)	01 nos
30. Wooden table	1 nos
31. Black board	1 nos

N. B. In addition to above tools/equipments to available the another plumbing tools as required.

#### **TEACHERS QUALIFICATION AND EXPERIENCE :-**

- A) Teacher's Qualification :- ITI /NCVT Plumbing with 2 year experience  
Experience :- At least 2 Year's teaching experience from technical High school/ITI's.
- B) Instructors Qualification :- One post  
ITI and C. T. I. from relevant branch.  
Experience :- At least 2 Year's Practical experience from Technical High schools/ITI/ Industry.
- C) Helper Qualification :- One Post  
S. S. C. Passed.  
experience :- At least 2 Year's experience in relevant branch.

## REFERENCE BOOKS :-

Audio, Video, Cassettes, Transparencies films etc.

Sr. No.	BOOK	AUTHOR	PUBLICATION
1.	Plumbing Vol .I and IV.	Townsend A. L.	Hutatinson
2.	Basic Plumbing	Philbin	Van. Nos-trand.
3.	Vocational Plumbing.	Sherry G. B.	Prentice Hall
4.	Teach yourself Plumbing	Inness J. H.	The English university Press.
5.	Plumber.	-----	-----

N. B. 1. Books be purchased as per requirement this is merely a guide list.

2. Refer Audio-Video Cassettes, transparencies films

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