Syllabus for Rural water supply Plumber & Sanitary work Assistant, V2

Course Name	Rural water supply Plumber & Sanitary work Assistant, V2		
Sector	Plumbing		
Course Code	STC-PLM/2021/3001, V2		
Level	3		
Occupation	Rural water supply Plumber & Sanitary work Assistant		
Job Description	Fittings and fixing of various water supply and sanitary work		
	components of any private, public building/house under the		
	supervision of the Sr. plumber/Supervisor (plumber).		
Course Duration	Total Duration 390 Hrs (T-90, P-180, OJT-60 and ES-60)		
Trainees' Entry Qualification	Class 8 pass and pursuing continuous regular schooling,		
	OR		
	Class 8 Pass with 1 year experience,		
	OR		
	Class 10 Pass		
	OR		
	Previous relevant qualification of NSQF Level 2 with 1 yr		
	experience		
Trainers Qualification	In Rural water supply Plumber & Sanitary work Assistant,		
	BE/BTECH in Civil Engineering with 1 year experience OR Diploma		
	in Civil Engineering with 2 years experience OR ITI in Relevant		
	trade with 5 years experience.		

Structure of Course:

Module		Theory	Practical	Total (Hrs)
No.	Outcome	(Hrs)	(Hrs)	[Multiple
				of 30]
1	Apply Safe Working Practices	10	20	30
2	Explain plumbing system components	10	20	30
3	Interpret diagrams and drawings used for plumbing work	10	20	30
4	Identify different tools for Plumbing	10	20	30
5	Identify different Plumbing Material and Pipes	10	20	30
6	Identify measurements and Symbols used in Plumbing	10	20	30
7	Make Capable to use pipe fittings, joints, bends, different pipe joining tools for distribution of water supply	10	20	30
8	Identify different items and in house drainage, sanitary installation	10	20	30
9	Troubleshoot problems in plumbing system	10	20	30
10	Work in real job situation with special emphasis on basic safety and hazards in this domain.	0	60	60
11	Employability Skills- 60 hrs.	60		60
	TOTAL:	150	240	390

SYLLABUS

Module No 1: Apply Safe Working Practices

Outcome: Apply Safe Working Practices

Theory content:

- Use the appropriate tools required for the specific work or job
- Ensure that the necessary protective equipment are available
- Do not apply excessive pressure or force
- Use or wear safety gear (helmet, gloves, goggles, safety shoes, ear plugs, etc.)

Practical content:

- Demonstrate Knowledge of Safe working practices on construction sites
- Carry out safe working practices on construction sites
- Identify hazards and procedure to avoid accidents at work sites
- Taking undue risk during execution of a job at a construction site should be avoided
- In any construction site where work is in progress, put up notice for outsiders to avoid the area until the work is completed

Tools & Equipment needed: First Aid box, Different types of fire extinguishers, PPE kits, Safety charts

Module No 2: Explain plumbing system components

Outcome: Explain plumbing system components

Theory content:

- Introduction-plumbing and sanitary system, A plumber's job role
- Components of plumbing system
- Standard plumbing and sanitary material, as per the Bureau of Indian Standards (BIS)

Practical content:

- Identify the plumbing items fitted in school and house
- Identify the material used in plumbing fittings and fixtures
- Make a list of the identified plumbing items

<u>Tools & Equipment needed</u>: Rule Steel, Rule Wooden 4 fold, Hacksaw Frame adjustable, Scriber, Surface plate, Marking Table, Combination set, Hand Vice, Jaw, etc.

Module No 3: Interpret diagrams and drawings used for plumbing work

Outcome: Interpret diagrams and drawings used for plumbing work

Theory content

- Describe the convention used in drawings of Mechanical components and building structures etc.
- Identify mechanical components and their specification from drawing
- Identify the stages of construction at which the installation of pipe line

Practical content:

- Concept of plan, elevation, side view and sectional view of civil engineering structure
- Draw free hand mechanical sketches of the components
- Identify fabrication items

<u>Tools & Equipment needed</u>: Hacksaw Frame adjustable, Centre punch, Hammer ball peen, Surface plate, Marking Table, 'V' Blocks with clamps, etc

Module No 4: Identify different tools for Plumbing

Outcome: Identify different tools for Plumbing

Theory content:

- The major tools used in plumbing-
- 1. Holding tools
- 2. Fitting tools
- 3. Cutting tools
- 4. Pipe bending tools

Practical content:

- Collect the plumbing tools available in your classroom
- Draw figures of the plumbing tools and label them
- Collect the masonry tools available in your classroom
- Draw figures of the masonry tools and label them

Tools & Equipment needed:

Hacksaw Frame adjustable, Scriber, Centre punch, Chisel Cold, flat, Level spirit wooden, Plumb bob, Trowel, Stillson wrench, Screw Driver, Cutting pliers, Snip bend, etc.

Module No 5: Identify different Plumbing Material and Pipes

Outcome: Identify different Plumbing Material and Pipes

Theory content:

• Sealing Material:

Thread Seal Tape, Plumber's Putty, Sealing Adhesives

Plumbing Pipes-

Types of plumbing pipes-advantages, Precautions

- 1. Cast Iron (CI) pipes, 2. Ductile iron pipes, 3. Steel pipes, 4. Galvanized Iron (GI) pipes, 5. Copper pipes
- 6. Asbestos Cement (AC) pipes, 7. Concrete pipes
- 8. Stone ware pipes, 9. PVC pipes

Practical content:

- Collect the plumbing material from a shop
- Identify the purpose of this material
- Identify the plumbing pipes in a shop

Tools & Equipment needed:

Hacksaw Frame adjustable, Scriber, Centre punch, Chisel Cold, flat, Level spirit wooden, Plumb bob, Trowel, Stillson wrench, Screw Driver, Cutting pliers, Snip bend, Wooden Mallet small, Surface plate, Marking Table, 'V' Blocks with clamps, Pipe bender(Hydraulic type), Hammering drilling machine, Pipe bender, manually operated, Chain:pipe wrench, Stillson pattern pipe wrenches, Pipe vice, etc.

Module No 6: Identify measurements and Symbols used in Plumbing

Outcome: Identify measurements and Symbols used in Plumbing

Theory Content:

- Introduce Measurement of Length, Measurement of Weight, Length Conversion, Measurement of Volume, Measurement of Density, Measurement of Pressure, Comprehensive Conversion
- Identify different types of measurement tools
- Identify different types of plumbing symbols and their uses

Practical Content:

- Measure the length, width and height of a room
- Measure the weight of a brick and cement bag
- Draw the plumbing symbols

Tools & Equipment needed:

Hacksaw Frame adjustable, Hammer ball peen, File flat rough, Surface plate, Marking Table, Scribing Block, Universal, Combination set, etc.

Module No 7: Make capable to use pipe fittings, joints, bends, and different pipe joining tools for distribution of water supply

Outcome: Make capable to use pipe fittings, joints, bends, and different pipe joining tools for distribution of water supply

Theory Content:

- Introduce Pipe Fittings
- Identify the type of Pipe Fittings
- Install and maintain different Electric pumps

Practical Content:

- Identify the fitting items available in the market
- Draw figures of the various types of bends
- Identify the components
- Join the pipe with the help of proper pipe joining tools
- Draw the figure of the joints

Tools & Equipment needed:

Hacksaw Frame adjustable, Scriber, Centre punch, Chisel Cold, flat, Level spirit wooden, Plumb bob, Trowel, Stillson wrench, Screw Driver, Cutting pliers, Snip bend, Wooden Mallet small, Surface plate, Marking Table, 'V' Blocks with clamps, Pipe bender(Hydraulic type), Hammering drilling machine, Pipe bender, manually operated, Chain :pipe wrench, Stillson pattern pipe wrenches, Pipe vice, Electric PPR pipe welding machine, Metal rack, etc.

Module No 8: Identify different items and in house drainage, sanitary installation

Outcome: Identify different items and in house drainage, sanitary installation

Theory Content:

- Install and conveniences of House drainage, and domestic sanitary
- Make capable house sewer connection

Practical Content:

- Identify the drainage, sanitary installations and conveniences items fitted in the school and house
- Identify the material used in sanitary fittings, plumbing fittings and fixtures
- Identify the sanitary items available in the market
- Draw figures of the various types of sanitary items

Tools & Equipment needed:

Hacksaw Frame adjustable, Scriber, Centre punch, Chisel Cold, flat, Level spirit wooden, Plumb bob, Trowel, Stillson wrench, Screw Driver, Cutting pliers, Snip bend, Wooden Mallet small, Surface plate, Marking Table, 'V' Blocks with clamps, Pipe bender(Hydraulic type), Hammering drilling machine, Pipe bender, manually operated, Chain :pipe wrench, Stillson pattern pipe wrenches, Pipe vice, Electric PPR pipe welding machine, Metal rack, etc.

Module No 9: Troubleshoot problems in plumbing system

Outcome: Troubleshoot problems in plumbing system

Theory Content:

- Significance of the good customer and good service to an organization
- Methods of rectification and modification and costing should be done and communicated

Practical Content:

- Identify causes for and damage in plumbing system
- Refurbishing and maintaining water supply systems, sanitary fittings, and conducting tests to ensure proper functionality

Tools & Equipment needed:

Water meter, working bench, Chain :pipe wrench, Stillson pattern pipe wrenches, Pipe stock and dies complete with stocks, bushing, bushing holders, Taps and wrenches sizes covered, to suit pipes, Scribing gauge, Blow lamp, Washer cutter, etc.

Module No.- 10: OJT

Outcome: Work in real job situation with special emphasis on basic safety and hazards in this domain

Practical Content:

Assessor will check report prepared for this component of Practical training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor for **60 Hours.**)

Module No - 8: Employability Skills (60 Hrs)

Employability Skills (60 hours)

Model Curriculum

Module Summary:

S. No	Module Name	Duration (hours)	Assessment Marks
1.	Module Name	(Hours)	Walks
1.	Introduction to Employability Skills	1.5	2
2.	Constitutional values - Citizenship	1.5	2
3.	Becoming a Professional in the 21st Century	2.5	6
4.	Basic English Skills	10	6
5.	Career Development & Goal Setting	2	3
6.	Communication Skills	5	4
7.	Diversity & Inclusion	2.5	2
8.	Financial and Legal Literacy	5	5
9.	Essential Digital Skills	10	8
10.	Entrepreneurship	7	4
11.	Customer Service	5	3
12.	Getting Ready for Apprenticeship & Jobs	8	5
	Total	60	50

Key Learning Outcomes

After completing this programme, participants will be able to:

- 1. Discuss the Employability Skills required for jobs in various industries
- 2. List different learning and employability related GOI and private portals and their usage

Constitutional values - Citizenship Duration: 1.5 Hours

- 3. Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen
- 4. Show how to practice different environmentally sustainable practices.

Becoming a Professional in the 21st Century Duration: 2.5 Hours

5. Discuss importance of relevant 21st century skills.

- 6. Exhibit 21st century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.
- 7. Describe the benefits of continuous learning.

Basic English Skills Duration: 10 Hours

- 8. Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone
- 9. Read and interpret text written in basic English
- 10. Write a short note/paragraph / letter/e -mail using basic English

11. Create a career development plan with well-defined short- and long-term goals

Communication Skills Duration: 5 Hours

- 12. Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette.
- 13. Explain the importance of active listening for effective communication
- 14. Discuss the significance of working collaboratively with others in a team

Diversity & Inclusion Duration: 2.5 Hours

- 15. Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD
- 16. Discuss the significance of escalating sexual harassment issues as per POSH act.

Financial and Legal Literacy Duration:5 Hours

- 17. Outline the importance of selecting the right financial institution, product, and service
- 18. Demonstrate how to carry out offline and online financial transactions, safely and securely
- 19. List the common components of salary and compute income, expenditure, taxes, investments etc.
- 20. Discuss the legal rights, laws, and aids

Essential Digital Skills Duration: 10 Hours

- 21. Describe the role of digital technology in today's life
- 22. Demonstrate how to operate digital devices and use the associated applications and features, safely and securely
- 23. Discuss the significance of displaying responsible online behavior while browsing, using various social media platforms, e-mails, etc., safely and securely
- 24. Create sample word documents, excel sheets and presentations using basic features
- 25. utilize virtual collaboration tools to work effectively

Entrepreneurship Duration: 7 Hours

- 26. Explain the types of entrepreneurship and enterprises
- 27. Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan
- 28. Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement
- 29. Create a sample business plan, for the selected business opportunity

Customer Service Duration: 5 Hours

- 30. Describe the significance of analyzing different types and needs of customers
- 31. Explain the significance of identifying customer needs and responding to them in a professional manner.
- 32. Discuss the significance of maintaining hygiene and dressing appropriately

Getting Ready for apprenticeship & Jobs Duration: 8 Hours

- 33. Create a professional Curriculum Vitae (CV)
- 34. Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively
- 35. Discuss the significance of maintaining hygiene and confidence during an interview
- 36. Perform a mock interview
- 37. List the steps for searching and registering for apprenticeship opportunities

<u>LearningOutcome</u>—AssessmentCriteria

Outcomes to be assessed/ NOS to be assessed	Assessment criteria for the outcome	
1. Maintain safety at the work	After completion of this module students will be able to	
site.	1.1Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements and according to site policy.	
	1.2 Identify and take necessary precautions on fire and safety .	
	1.3 Identify, handle and store / dispose dangerous goods and substances according to safety regulations and requirements.	
	1.4 Report supervisor/ Competent of authority in the event of accident or sickness of any staff and record accident details correctly. according to site accident/injury procedures.	
	1.5 Identify and observe site evacuation procedures according to site policy.	
	1.6 Identify Personal Productive Equipment (PPE) and use the same as per related working environment.	
	1.7 Identify basic first aid and use them under different circumstances.	
	1.8 Identify different fire extinguisher and use the same as per requirement.	
2. Understand plumbing system components.	2.1 Explain the role of plumber and its importance-Plumbing cycle- plumbing and sanitary system	
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3. Interpret diagrams and drawings used for plumbing	 2.1 Explain the role of plumber and its importance-Plumbing cycle- plumbing and sanitary system 2.2 Explain- What is Plumbing? What is Sanitary Work? 2.3. Explain Components of plumbing system. 2.4 Name Standard plumbing and sanitary material, as per the Bureau of Indian Standards (BIS). 2.5 Perform maintenance of all the instruments and tools related to plumbing. 2.6 Explain Points to be consider before starting the work by a plumber After completion of this module students will be able to 3.1 Demonstrate the Concept of plan, elevation, side view and 	
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4. Identify different tools for	After completion of this module students will be able to		
Plumbing	4.1 Describe the major tools used in plumbing-		
	4.2 Identify different types of holding tools and use the same as per requirement.		
	4.3 Identify different types of fitting tools and use the same as per requirement.		
	4.4 Identify different types of Cutting tools and use the same as per requirement.		
	4.5 Identify different types of Pipe bending tools and use the same as per requirement.		
	4.6 Identify different types of other accessories besides mentioned above and use the same as per requirement.		
5. Know different Plumbing	After completion of this module students will be able to		
Material and Pipes.	5.1 Prepare list of different Sealing materials and location where		
	they are used in plumbing.		
	5.2 Identify different types of pipes used in water supply and		
	sanitary and drainage work and their advantages, disadvantage and Care during work.		
6. Identify measurements and	After completion of this module students will be able to		
Symbols used in Plumbing	6.1 Identify different types of Measuring tools for length,		
	diameter, water pressure		
	6.2 Identify different types of Plumbing Symbols-, Importance of		
	plumbing symbols, Identification of the symbols given in the		
7. Able to use pipe fittings,	drawings of fixtures After completion of this module students will be able to		
joints, bends, different pipe	7.1 Identify the fittings available in the workshop.		
joining tools for distribution of	7.2 Prepare a list of the identified fitting items seen in the		
water supply.	workshop.		
	7.3 Draw figures of the various types of bends.		
	7.4 Collect the pipe joints, pipes and tools and join the pipe with		
	the help of proper pipe joining tools.		
	7.5 Draw the figure of the threaded joints, grooved and compression joints.		
8. Identify different items and	After completion of this module students will be able to		
in house drainage, sanitary installation.	8.1 Identify the drainage, sanitary installations and conveniences items fitted in the school.		
	8.2. Make a list of the identified sanitary items.		
	8.3 Identify the sanitary fittings and fixtures and types material used.		
	8.4. Draw figures of the various types of sanitary items.		
9. Trouble shoot problems in plumbing system.	After completion of this module students will be able to		
	9.1 Identify causes for and damage in plumbing system		
	9.2 Reconditioning of water supply and sanitary fittings. Cleaning of sanitary fittings leakage and repairs. Testing for correct functioning.		
10.OJT	Assessor will check report prepared for this component of Practical training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor		

	for 60 Hours.)
11. Employability Skill	As per guided curriculum

List of Tools, Equipment & materials needed for a batch of 30 Trainees:

SI No	Items with description	Unit of expression	Qty
1	Embroidery Thread of Various composition , Count And Ply (assortment)	packs/reels	30nos
2	Novelty, Fancy Yarns, Metallic yarns (assortment)	packs/reels	20nos
3	Base-Fabric yardage for embroidery	mtrs	100nos
4	Surface Embellishments and stickers tickets (assortment, as per req)	packs	10nos
5	Masking Tape		10nos
6	Needles for embroidery (various sizes)	packs	10nos
7	Thimbles (for each finger tips)		30nos
8	Design templates		1 no
9	Scales 24"		3nos
10	Measuring Tape		15nos
11	Punch Needles	packs	5nos
12	Scissors for Fabric Cutting And Paper Cutting		5nos
13	Frame for embroidery	sets	30nos
14	Tracing Paper(Size- A3)	packs	2nos
15	Carbon Paper (Coloring)	packs	2nos
16	Cotton-Swabs/Dabber/roll	rolls	1 no
17	Hand Held Thread Trimmer		30nos
18	Seam Ripper		30nos
19	Fire Extinguisher		1 no
20	Glue	pack	1 no
21	Bent Neck needle/aari needle	'	5nos
22	Basic Stationary	sets	30nos
23	Pick Glass		3nos
24	Students Manual		30nos
25	First Aid Box		1 no
26	Tracing Wheel		5nos
27	Tailor's Chalk	Вох	1 no
28	Pins & Safety Pins & Dress Maker's Pins	Вох	1 no
29	Pin Cushion	Вох	1 no
30	Backing Paper/fusing	packs	2nos
31	Hand Embroidery Motif Books		1 no
32	Student's Chair With Table Arm		30nos
33	Teacher's Table		1 no
34	Teacher's Chair		1 no
35	White/Black Board		1 no
36	White Board Marker/Chalk		1 no
37	Board Eraser		1 no
38	Cupboard		1 no
39	Dress Form (size medium, preferably woman)		1 no
40	Hanger		5
41	Dustbin		1 no
42	Carpet (depends on covered floor area)		1 no

SI No	Items with description	Unit of expression	Qty
43	* If carpet not there then stools and big table		15
44	Ink or tracing material	bottles	2nos
45	Samples ,		1 no
	Garments, Made Ups		
	And Home Furnishing and embroidery swatches		
46	Iron and Iron Table		1 no
47	Drawing sheets		60nos
48	Sketching equipment of different medium	set	15nos
49	Drawing boards		30nos
50	Interchangeable Needle Set	set	10nos
51	Straight needle s	set	20nos
52	Tapestry Needle		30nos
53	Stitch Markers		30nos
54	Blocking Pins		60nos
55	Ruler 12"		15nos
56	Thread Cutter		30nos
57	Knitting Yarns (Wool / Acrylic / Cotton)	Вох	30nos

Marks distribution

Sr No	Outcome No.	Outcome Name	Total marks Th	Total marks Pr
1	PLM/3001/OC1	Apply Safe Working Practices	20	80
2	PLM/3001/OC2	Explain plumbing system components	20	90
3	PLM/3001/OC3	Interpret diagrams and drawings used for plumbing work	20	90
4	PLM/3001/OC4	Identify different tools for Plumbing	20	90
5	PLM/3001/OC5	Identify different Plumbing Material and Pipes	10	50
6	PLM/3001/OC6	Identify measurements and Symbols used in Plumbing	10	50
7	PLM/3001/OC7	Make Capable to use pipe fittings, joints, bends, different pipe joining tools for distribution of water supply	20	80
8	PLM/3001/OC8	Identify different items and in house drainage, sanitary installation	20	70
9	PLM/3001/OC9	Troubleshoot problems in plumbing system	10	50

10	PLM/3001/OC10	Work in real job situation with special emphasis on basic safety and hazards in this domain.	0	150
11	DGT/VSQ/N0102	Employability Skills- 60 hrs.	50	0