



Advance Diploma in Plumbing & sanitary Fitting

Plumber is a mechanical repairing and installing vocational trade. The duration of trade is one year with two semesters of six months each. Trade comprises some of the topics like installing or maintaining heating systems; repairing sanitation systems; fitting domestic appliances; installing air-conditioning units; fitting bathrooms and emergency repairs. There are many ITIs in the country offering this trade because of its work offering nature after its passing.

Syllabus

| Sem. I | | |
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| Sr. No. | Subjects of Study | |
| | Trade Practical | Trade Theory |
| 1 | Familiarization with Institute | Importance of the trade. |
| 2 | Use of Fitter's hand tools | Fitter's hand tools |
| 3 | Marking, filing, drilling holes and sawing. | Types of files, pipes |
| 4 | Uses of Carpenter's hand tools | Description of Carpenter's hand tools |
| 5 | Practice of gas welding | Gas welding |
| 6 | Use of mason hand tools | Mason hand tools |
| 7 | Use and care of the plumber's tools and equipments. | Descriptions of the plumber's tools and equipments |



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| 8 | Water distribution system | Composition of Water |
| 9 | PVC welding | Hot gas welding, Electric heat welding |
| 10 | Fixing of different pipe accessories | Description of water fittings |
| 11 | Use & fixing of P.V.C. pipe fittings | Types of traps |
| | Project Work | |
| Sem. II | | |
| | Trade Practical | Trade Theory |
| 1 | Laying out of hummed and asbestos pipes | Method of laying out pipes alignment and joining. |
| 2 | Joining of pipes | Description of various pipe joints |
| 3 | Installation of electric pumps | Description of Plumber's materials |
| 4 | Repair of hand water pumps | Description and types of pumps |
| 5 | practice on cutting threads (internal and external) | Description of pipe dies, their uses, care and precaution. |
| 6 | Bending and shaping of different pipes | Bending machine and method of bending. |



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| 7 | Practice on wiping lead pipe joints. | Method of bending pipes by hot and cold process |
| 8 | Tracing out leakages and repairing of water supply system | Air lock in pipes and its removal. |
| 9 | Practice on fixing of different water, gas and steam cocks and valves | Description of cocks & valves- their types, materials. |
| 10 | Erecting simple water supply system | Inspection and testing of water supply system. |
| 11 | Joining practice on lead pipe. | Type of joints used for different materials |
| 12 | Bending of galvanized pipe | Method of bending Galvanized pipe |
| 13 | Measurement, preparation and fixing up of lead wastes from wash basin and bath. | Domestic drainage system |
| 14 | Measurement, cutting, preparation and fixing up of rising mains and distributing pipes | Concept of heat and temperature. |
| 15 | Repairing of waste outlet | General layout, specification of materials required and connection of pipes to mains |



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| 16 | Repairing of broken or cracked sanitary fittings. | Sensor system for urinals and was basin |
| | Project Work | |

