

COLLABORATIVE CAREER CENTER DEVELOPMENT ASSOCIATE

DIPLOMA IN PLUMBING TECHNOLOGY

2 YEAR COURSE SYLLABUS

Course Duration: 2 Years **Total Semesters:** 4

Note: This is a suggested syllabus structure. Subject codes are illustrative and may be adapted to the applicable awarding body's requirements.

YEAR 1 – SEMESTER I

SUBJECT CODE	SUBJECT NAME
PL101	Trade Theory & Workshop Calculation
PL102	Plumbing Materials and Fittings
PL103	Basic Engineering Drawing
PL104	Plumbing Tools and Equipment
PL105	Pipe Jointing Techniques – I
PL106	Health, Safety and Environment
PL107	Basic Mathematics and Measurements
PL108	Workshop Practice – I

YEAR 1 – SEMESTER II

SUBJECT CODE	SUBJECT NAME
PL109	Water Supply Systems
PL110	Pipe Installation and Maintenance
PL111	Sanitary Fixtures and Fittings
PL112	Valves, Taps and Plumbing Accessories
PL113	Pipe Jointing Techniques – II
PL114	Drainage System Fundamentals
PL115	Practical Workshop – II
PL116	Basic Electrical and Pump Systems

YEAR 2 – SEMESTER III

SUBJECT CODE	SUBJECT NAME
PL201	Advanced Plumbing Systems
PL202	Sanitary Installation and Maintenance
PL203	Water Supply and Distribution Systems
PL204	Drainage and Sewerage Systems
PL205	Plumbing Estimation and Costing
PL206	Water Pumps and Storage Systems

SUBJECT CODE	SUBJECT NAME
PL207	Plumbing Drawing and Layout Planning
PL208	Practical Workshop – III

YEAR 2 – SEMESTER IV

SUBJECT CODE	SUBJECT NAME
PL209	Hot Water and Cold Water Systems
PL210	Rainwater Harvesting and Sustainable Plumbing
PL211	Plumbing Inspection, Testing and Commissioning
PL212	Repair, Troubleshooting and Preventive Maintenance
PL213	Building Services and Plumbing Codes
PL214	Entrepreneurship and Employability Skills
PL215	Industrial Training / Internship
PL216	Final Project and Practical Examination

COURSE DETAILS

Particulars	Details
Course Duration	2 Years
Total Semesters	4
Teaching Method	Theory and Practical
Practical Training	Workshop and field practice
Industrial Training	As prescribed by the institute/awarding body
Assessment	Theory, practical, project and viva
Final Qualification	Diploma in Plumbing Technology, subject to applicable approval and certification requirements

PRACTICAL TRAINING TOPICS

- Measuring, cutting and threading pipes.
- Installing PVC, CPVC, PPR and GI pipe systems.
- Fitting taps, valves, washbasins and water closets.
- Installing drainage and sanitary systems.
- Testing pipes for leaks and pressure.
- Installing water tanks and pumps.
- Preparing plumbing layouts and material estimates.
- Identifying faults and performing repairs.

Important: This is a proposed curriculum, not an officially approved syllabus. Subject codes, hours, credits and assessment rules should match the relevant awarding body's current curriculum for formal certification.