

BOARD OF SCHOOL EDUCATION HARYANA

Syllabus and Chapter wise division of Marks (2025-26)

Class-12th Subject: Plumbing (NSQF) Code: PLM 985

General Instructions:

1. There will be an Annual Examination based on the entire syllabus.

2. The Annual Examination will be of 60/2=30 marks, Practical Examination will be of 50 marks and 20 marks weightage shall be for Internal Assessment.

- 3. For Practical Examination:
 - i) Two experiments of 10 marks each.
 - ii) One activity of 15 marks.
 - iii) Practical record of 10 marks.
 - iv) Viva-voce of 15 marks.

4. For Internal Assessment:

There will be Periodic Assessment that would include:

- i) For 6 marks- Three SAT exams will be conducted and will have a weightage of 06 marks towards the final Internal Assessment.
- ii) For 2 marks- One half yearly exam will be conducted and will have a weightage of 02 marks towards the final Internal Assessment.
- iii) For 2 marks- Subject teacher will assess and give maximum 02 marks for CRP (Class room participation).
- iv) For 5 marks- A project work to be done by students and will have a weightage of 05 marks towards the final Internal Assessment.
- v) For 5 marks- Attendance of student will be awarded 05 marks as:

75% to 80%	- 01 Marks
Above 80% to 85%	- 02 Marks
Above 85% to 90%	- 03 Marks
Above 90% to 95%	- 04 Marks
Above 95% to -	- 05 Marks



Course Structure (2025-26)

Class-	12 th Subject: Plumbing (NSQF) Code:	PLM 985
Unit. No.	Vocation Skill Unit Name	Unit Marks
	Sensor Based Fixtures	20
	Advance Pipe Fittings	20
	Standard Operating Procedures (SOPs) in	
	Plumbing	12
	Working Effectively with others	08
Unit. No.	Employability Skill Units	Unit Marks
1.	Communication Skills	2
2.	Self-Management Skills	2
3.	Information and Communication Technology Skills	2
4.	Entrepreneurship Skills	2
5.	Green Skills	2
	Total	60/2=30
	Practical Examination	50
/	Internal Assessment	20
1	Grand Total	100



Employability Skill

Unit 1: Communication Skills

Session 1: Active Listening Session 2: Parts of Speech Session 3: Writing Sentences

Unit 2: Self-Management Skills

Session 1: Motivation and Positive Attitude Session 2: Result Orientation Session 3: Self - Awareness

Unit 3: Information and Communication Technology Skills

- Session 1: Getting Started with Spreadsheet
- Session 2: Performing Basic Operations in a Spreadsheet
- Session 3: Working with data and Formatting text
- Session 4: Advanced features in spreadsheet
- Session 5: Presentation Software
- Session 6: Opening, closing, saving and printing a presentation
- Session 7: Working with slides and Text in a Presentation
- Session 8: Advanced features in Presentation

Unit 4: Entrepreneurship Skills

- Session 1: Entrepreneurship and Entrepreneur
- Session 2: Barriers to Entrepreneurship
- Session 3: Entrepreneurial attitudes
- Session 4: Entrepreneurial competencies

Unit 5: Green Skills

Session 1: Green Jobs

Session 2: Importance of Green jobs

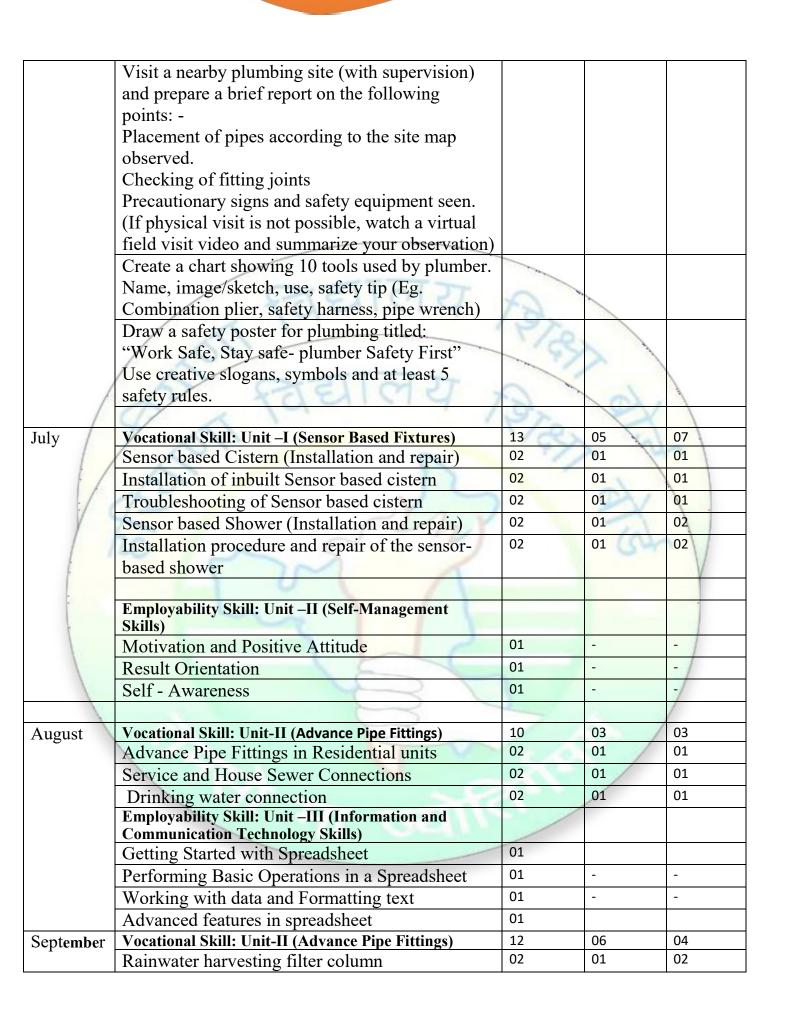
Month wise NSQF Syllabus Teaching Plan (2025-26)

Class- 12th

Subject: Plumbing (NSQF)

Code: PLM985

Month	Subject- Content	Teaching Periods	Revision Periods	Practical Work
April	Vocational Skill: Unit –I (Sensor Based Fixtures)	13	05	05
	Introduction to Sensors and its application	01	-	-
	Basic Components of a Sensor based Plumbing	02	01	-
	System	12		
	Solenoid valve, battery box, battery, and its application	02	01	01
/	Installation and replacement of battery in sensor- based faucet	02	01	02
	Selection of any sensor-based fixtures	02	01	01
/	Concept of Sensor based faucet and its types	02	01	01
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1 /	Employability Skill: Unit –I (Communication Skills)		.)	
1/	Active Listening	01	-ON	1
VS	Parts of Speech	01	-	-\
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May	Vocational Skill: Unit –I (Sensor Based Fixtures)	10	05	06
1	Sensor based faucet (Installation and repair)	02	01	02
2	Installation of Infrared Sensor Faucet	02	01	01
	Installation and Repair of a Sensor-based Urinal	02	01	02
	Repairing process of the sensor-based urinal and its application	02	01	01
	Employability Skill: Unit –I (Communication Skills)	02	01	
1	Writing Sentences	02	01	-
T			/	
June	During Summer Vacation Home Work/Project		/	
	Report Writing on Roles and Responsibilities of a plumbing technician in modern plumbing			
	system which includes qualification, daily tasks, safety responsibilities, equipment used.			
	Draw the line diagram of solenoid valve, battery box, battery and label it.			
	Prepare a worksheet of 20 MCQ on plumbing tools, equipment's, safety procedures of using tools and equipment's.			





	Solar water heater and its installation	02	01	02
	Advantages and Limitations of Solar water heater	01	01	-
	Vocational Skill: Unit-III (Standard Operating Procedures (SOPs) in Plumbing)			
	Key Characteristics of SOP	01	01	-
	Objectives of SOP	01	01	-
	Common SOPs ion Plumbing Sector .	01	01	-
	Employability Skill: Unit –III (Information and Communication Technology Skills)	32		
	Presentation Software	01		
	Opening, closing , saving and printing a presentation	01		-
/	Working with slides and Text in a Presentation	01	-02	\ <u>-</u>
/	Advanced features in Presentation	01		
/	Half Yearly Exam	100		1
October	Vocational Skill: Unit-III (Standard Operating Procedures (SOPs) in Plumbing)	08	03	04
/	SOP to be followed during installation of Pipes and Fittings	02	01	02
	Applications of Occupational Health and Safety (OHS) Practices	02	01	\mathbf{V}
:	Awareness of Occupational Health and Safety (OHS)	02	01	-
	Activities	-	-	02
	Employability Skill: Unit –IV (Entrepreneurship			
	Skills)			/
	Entrepreneurship and Entrepreneur	01		
1	Barriers to Entrepreneurship	01		
-		679		
November	Vocational Skill: Unit-III (Standard Operating Procedures (SOPs) in Plumbing)	09	05	08
	General introduction of Tools & Equipment	02	01	02
	Fire Sprinklers in Workplace & Installation	02	02	02
	SOP to be followed during installation of Pipes	02	02	02
	and Fittings	01		
	Activities	01	-	-
	Employability Skill: Unit –IV (Entrepreneurship Skills)			
	Entrepreneurial attitudes	01	-	-
	Entrepreneurial competencies	01	-	-
December	Vocational Skill: Unit-IV (Working Effectively with others)	07	04	-

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	01	01	
		01	-
Disputes	01	01	-
	01	01	-
	01	-	
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	01	-	-
Vocational Skill: Unit-IV (Working Effectively with others)		06	-
king Skills	01	01	-
g Good Relationship with Colleagues	01	01	-
Reports	01	01	-
	01	01	-
doubt session	04	-	-
Skill: Unit-IV (Working Effectively with	07	-	-
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1	02	-	-
d doubt session	04	-	-
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Note:

- Subject Teachers are advised to direct the students to prepare notebook of the Terminology/Definitional Words used in the chapters for enhancement of vocabulary or clarity of the concept.
- The NCERT textbook present information in boxes the book. These help students to get conceptual clarity. However, the information in these boxes would not be assessed in the year-end examination.



Class- 12th Subject: Plumbing (NSQF) Time 2 Hours 30 Minutes

Code: PLM 985

Competencies	Total
Knowledge	40%
Understanding	30%
Application	20%
Skill	10%
Total	100%

Type of Question	Marks	Number	Description	Total Marks
Objective Type Question	1	15	 6 Multiple Choice Questions, 3 Fill in the Blanks Questions, 3 One Word Answer Type Questions, 3 Assertion- Reason Questions 	15
Very Short Answer	2	6	Internal choice will be given	12
Type Question			in any 2 questions	
Short Answer Type	3	6	Internal choice will be given	18
Question			in any 2 questions	
Essay Type	5	3	Internal option will be given in	15
Question			Essay Type question.	
Total		30		60