

**MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI**  
**TEACHING AND EXAMINATION SCHEME**

**COURSE NAME : DIPLOMA IN SURFACE COATING TECHNOLOGY.**

**COURSE CODE : SC**

**DURATION OF COURSE : SIX SEMESTERS /THREE YEARS**

**WITH EFFECT FROM 2009-10**

**SEMESTER : SIXTH**

**DURATION: 20 WEEKS**

**FULL TIME/ PART TIME : FULL TIME**

**SCHEME - C**

Sr. No.	SUBJECT TITLE	SUBJECT CODE	TEACHING SCHEME			EXAMINATION SCHEME											
			TH	TU	PR	PAPER HRS.	TH		TEST	TOTAL		PR		OR		TW	
							Max	Min		Max	Min	Max	Min	Max	Min		
01	Project and Seminar on In plant Training	--	--	--	40	--	--	--	--	--	--	--	--	100 #	40	100 @	40
<b>TOTAL</b>			--	--	<b>40</b>	--	--	--	--	--	--	--	--	<b>100</b>	--	<b>100</b>	--

STUDENT CONTACT HOURS PER WEEK (FORMAL TEACHING) : 40 HOURS PER WEEK FOR 20 WEEKS.

@ - INTERNAL ASSESSMENT, # - EXTERNAL ASSESSMENT

**TOTAL MARKS : 200**

ABBREVIATIONS: TH – THEORY, TU – TUTORIAL, PR – PRACTICALS, OR – ORAL, TW – TERM WORK.

**All Practical, Oral & Term work assessment are to be done as per the prevailing norms for curriculum implementation & assessment.**

**Course Name : Diploma in Surface Coating Technology**

**Course Code : SC**

**Semester : Sixth**

**Subject Title : Project & Seminar on In plant Training**

**Subject Code : --**

**Teaching and Examination Scheme:**

Teaching Scheme			Examination Scheme						
TH	TU	PR	PAPER HRS	TH	TEST	PR	OR	TW	TOTAL
--	--	40*	--	--	--	--	100#	100@	200

**\* 40 Hours per week for 20 weeks.**

**RATIONALE:**

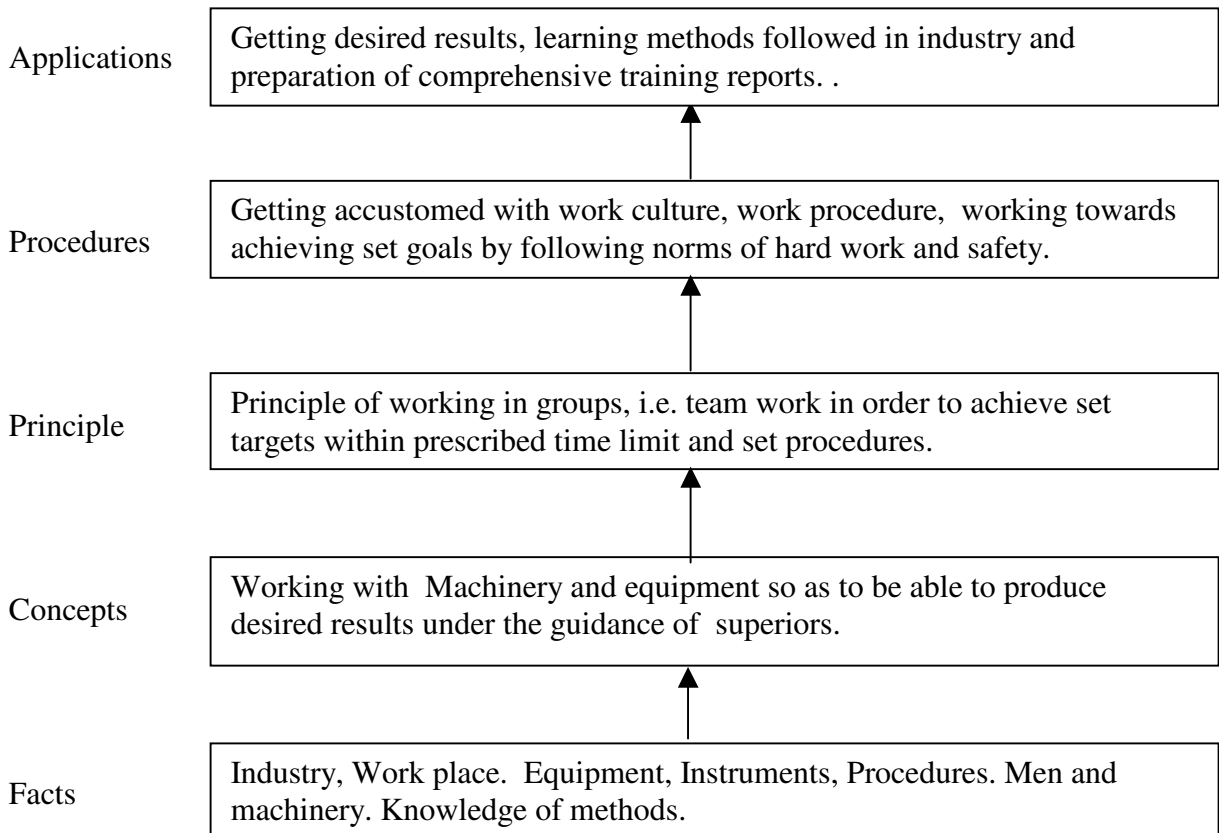
The student learns about application techniques, selection of paint system, pre-treatments, evaluation of paint film properties etc. Training semesters provide opportunities to students to learn the practical aspects of the principles taught in theory classes. The training in industry also familiarizes the students with factory working and induces him towards accepting responsibilities.

**OBJECTIVES:**

The students will be able to :

1. Describe work procedure.
2. Describe methods carried out in industry.
3. Identify problems and suggest remedial measures.

## Learning Structure:



## In plant Training:

### Skills to be developed:

#### Intellectual skills :

1. Understanding principles of Management.
2. Understanding time and motion principles to achieve efficiency.
3. Describing the production set-up, observation and drawing inferences from work experience.
4. Selecting criteria for choosing property characteristics of raw material and / or finished products.

#### Psychomotor skills :

1. Handling of material with respect to movement and dwelling time.
2. Measurement and control of condition of production.
3. Proper judgment of end point stage of various production activity.
4. Establishing optimum working conditions for productivity.
5. Acquiring skills for use of equipment safely.

## **TRAINING:**

1. The duration of training will be 20 weeks.
2. The inplant training is approved by Board of Apprenticeship Training, BOAT.
3. The sixth semester training will usually be from December to May, every year.
4. The students will be provided with a factory related to surface coatings for industrial training.
5. During training period, the student has to be regular and punctual in his duties.
6. He has to obey all rules of discipline prescribed by factory authorities.
7. Usually he will be given a chalked out programme by the factory authorities.
8. Usually factory will see that the student is exposed to various departments.
9. The student has to show keen interest in learning practical aspects of the principles he studied during his theory classes.
10. With the permission of factory authorities, a student is expected to keep the day to day record of the actual work done by him. Such information helps while preparing training report at the end of training.
11. The sixth semester students will usually be placed in application industries.
12. The student is expected to learn application techniques, how to have good finishes and how to judge the quality of finished products.
13. The student has to learn to evaluate dry film properties and performance properties.
14. The student has to learn how to deal with his fellow colleagues as well as his superiors in industry.
15. The student has to learn about customer services as well.
16. The Institute will be in regular touch with the industry as regards performance of students during training. Regular feed back will be obtained by the Institute from the industry.

## **Project Report:**

1. The students will be given about ten days time to submit inplant training report.
2. The report must be type-written (computer copy), A-4 size bond paper and running in about 30 – 40 pages.
3. The report must include the actual work done by the student during training.
4. The report should contain only that information which is permitted by the factory authorities. A copy of the report should be submitted to the factory.
5. The report must be accompanied by a certificate from the factory authorities regarding satisfactory completion of the training by the student. ( A Xerox copy of the certificate may be attached and the original copy must be produced at the time of examination.)
6. With the permission of the factory, students may attach/ submit samples, specimens, photographs, panels etc. along with the training report in order to make the presentation more effective.
7. The report should also be accompanied by student's "Submission" and Institute's "Certificate" signed by the Principal.

8. The student has to deliver seminar in the presence of students and examiners. He will be evaluated by External and Internal Examiners on the basis of seminar talk and the report submitted by him.

### **Format of The Training Report/ Seminar**

- a. Contents.
- b. Acknowledgement.
- c. Introduction about factory – Nature of work.
- d. Brief details about training programme undergone.
- e. Products manufactured by the company.
- f. Application techniques.
- g. Testing / Evaluation methods.
- h. Actual work done by the students. This should be in detail. The report should be such that it should cover the actual work done by the student, details of testing carried out. The contents of the report should not have been directly taken from any book.
- i. The report must also have necessary diagrams and photographs to make understanding clear and effective.
- j. The student may give his own views or suggestions.
- k. The student must have the complete knowledge about everything included in the report.
- l. He must be confident while delivering seminar talk as well as perfect in answering questions.
- m. The student will be evaluated by External and Internal Examiners on the basis of Project Report and seminar talk.