

QUALITY CONTROL OF PAINT : ORIENTATION COURSE

DURATION : 3 DAYS

COURSE CODE : TOIC

- Aim/Objective : a) The participants will be in position to identify the proper raw material for paints and its allied products.
- b) The Course will help the participants to standardise the quality of the product after proper evaluation.

Course Contents : Introduction to the raw materials used in paint and allied products. Availability of raw materials in the market - Quality examination by testing parameters of the standards - Quality awareness, of the product to meet the consumer choice.

Methodology : Theoretical

Eligibility : Science Graduate /Diploma or Degree in Paint Technology or equivalent.

Course Fee : Rs.2000/- per participant.

Intake : 15

Venue : NTH, Calcutta

TESTING, STANDARDISATION AND EVALUATION OF PAINTS

ENAMELS, VARNISHES AND ALLIED PRODUCTS

DURATION : 5 DAYS

COURSE CODE : T O 2 C

Aim/Objective : a) The participants will be test Paints, Enamels, Varnishes and Allied Products.

b) The Course will help the participants to standardise and assess the quality of the products.

Course Contents : Testing Standardisation of assessment of Paints, Enamels, Varnishes and Allied Products - Significance of testing - Review of test results, Practical assessment.

Methodology : Theoretical and practical demonstration.

Eligibility : Scientist, Technical Personnel engaged in R&D/ Manufacturing.

Course Fee : Rs. 3000/- per participant.

Intake : 10

Venue : NTH, Calcutta

PHYSICO - CHEMICAL ANALYSIS OF PESTICIDES

DURATION : 3 DAYS

COURSE CODE : T O 3 C

Aim/Objective : a) The participants will be in a position to understand the principles of analytical method.

b) The Course will help the participants to identify and estimate pesticides by Chemical and Instrumental techniques.

Course Contents : Principles of analytical method - Identification and Estimation of pesticides by chemical methods - Instrumental technique.

Methodology : Theoretical and Practical Demonstration.

Eligibility : Graduates in Science/Technical personnel with experience in pesticides.

Course Fee : Rs.2000/- per participant.

Intake : 10

Venue : NTH, Calcutta

.

PHYSICO - CHEMICAL ANALYSIS OF SOAPS & DETERGENTS

DURATION : 3 DAYS

COURSE CODE : T O 4 C

- Aim/Objective : a) The participants will be in a position to know about the different formulations of Soap and Detergent.
- b) The Course will help the participants to evaluate the product on the basis of analytical result.
- Course Contents : Introduction of different formulations of Soap and Detergent - Functions of the ingredients - Analytical techniques for test and evaluation.
- Methodology : Theoretical and Practical Demonstration.
- Eligibility : Science Graduate/ Technical personnel experienced in Soap manufacturing.
- Course Fee : Rs.2000/- per participant.
- Intake : 10
- Venue : NTH, Calcutta

SAMPLING & TESTING OF CEMENT & CEMENT ADDITIVES

DURATION : 5 DAYS

COURSE CODE : T O 5 C

- Aim/Objective : a) The participants will be in a position to know the parameters of quality cement and cement additives.
- b) The Course will help the participants to know about different types of cement produced in the country.
- Course Contents : Introduction of testing and quality control of different types of cement and cement additives
- Types of cement manufactured in India -
Study of new materials.
- Methodology : Theoretical
- Eligibility : Civil Engineers, Site Supervisors' Diploma holders, Concrete Technologist, persons experienced in Civil Engineering work.
- Course Fee : Rs.3000/-.
- Intake : 10
- Venue : NTH, Calcutta
- .

SAMPLING & TESTING OF BUILDING MATERIALS
(EXCLUDING CEMENT & CEMENT ADDITIVES)

DURATION : 5 DAYS

COURSE CODE : T O 6 C

- Aim/Objective : a) The participants will be in a position to know the different methods of testing for building materials.
- b) The Course will help the participants to evaluate the test result.
- Course Contents : Introduction of recent developments in sampling and testing of building materials - Study of relevant I. S. Standards and methods of testing - Sampling procedure - Evaluation of results - New materials.
- Methodology : Theoretical and practical demonstration.
- Eligibility : Civil Engineers, Personnel Supervisors with experience in construction and test laboratories.
- Course Fee : Rs.3000/- per participant.
- Intake : 10
- Venue : NTH, Calcutta
- .

DESIGN OF CONCRETE MIX

DURATION : 5 DAYS

COURSE CODE : T O 7 C

- Aim/Objective : a) The participants will be in a position to know the recent developments in the field of Concrete mix design and quality control.
- b) The Course will enable the participants to equip them with the "Know-how" for designing concrete mixes.
- Course Contents : Introduction of recent developments in concrete mix design - Principles of methods of mix - Rapid method of mixed design - Control techniques and site controls- Acceptance criteria for concrete.
- Methodology : Theoretical and practical demonstration.
- Eligibility : Civil Engineers, Supervisors Concrete Technologists & Personnel with experience in Civil Engineering works.
- Course Fee : Rs.3000/- per participant.
- Intake : 10
- Venue : NTH, Calcutta
- .

COURSE ULTRASONIC TESTING LEVEL - I

DURATION : 10 DAYS

COURSE CODE : T O 8 C

- im/Objective : a) The participants will know about different NDT methods of testing and in particular about Ultrasonic testing.
- b) The Course will enable the participants to operate and standardise ultrasonic flaw detector, besides using it for flaw detection.
- Course Contents : NDT Techniques - an overview - Principles of wave propagation - Generation of ultrasonic waves - Design and function of ultrasonic test equipment - Calibration, operation & handling - Test procedures - Variables affecting test results - Limitations - Codes & Standards.
- Methodology : Theoretical and practical.
- Eligibility : Degree, Diploma in Engineering or B. Sc., with Physics & Mathematics, 6 months to 1 year experience.
- Course Fee : Rs.5000/- per participant.
- Intake : 10
- Venue : NTH, Calcutta

MAGNETIC PARTICLE TESTING LEVEL - I

DURATION - 5 DAYS

COURSE CODE : T O 9 C

- Aim/Objective : a) The participants will know about the principles of Magnetic Particle Testing and the equipment used for flaw detection.
- b) The Course will enable the participants to operate and standardise Magnetic Particle Testing equipment, besides using it for flaw detection.
- Course Contents : Principles & Characteristics - Magnetic Fields - Effect of discontinuity - Magnetisation & Demagnetisation - Selection of test parameters - Test equipment - Inspection of materials - Codes & Standards.
- Methodology : Theoretical and practical.
- Eligibility : Degree, Diploma in Engineering or B. Sc., with Physics & Mathematics, 12 Standard pass with Physics & Mathematics, 6 months to 1 year experience.
- Course Fee : Rs.3000/- per participant.
- Intake : 10
- Venue : NTH, Calcutta

LIQUID PENETRANT TESTING LEVEL - I

DURATION - 3 DAYS

COURSE : T 10 C

- Aim/Objective : a) The participants will know about the principle of Liquid Penetrant Testing and Equipment used for flaw detection.
- b) The Course will enable the participants to detect flaw with Liquid Penetrants Method.
- Course Contents : Liquid Penetrant Process - Procedure - Test equipment - Selection of test methods - Interpretation of test results - Codes & Standards.
- Methodology : Theoretical and practical.
- Eligibility : Degree, Diploma in Engineering or B. Sc., with Physics & Mathematics, 12 Standard pass with Physics & Mathematics, 6 months to 1 year experience.
- Course Fee : Rs.2000/- per participant.
- Intake : 10
- Venue : NTH, Calcutta
- .

MECHANICAL TESTING OF MATERIALS

DURATION - 5 DAYS

COURSE : T 11 C

- Aim/Objective : a) The participants will know about different mechanical tests.
b) The Course will enable the participants to conduct mechanical tests and find out the results.
- Course Contents : Concept of basic mechanical testing - Selection & preparation of test specimen - Testing & Evaluation of results.
- Methodology : Theoretical and practical demonstration.
- Eligibility : Degree, Diploma in Engineering/Degree in Science with some experience.
- Course Fee : Rs. 3000/- per participant.
- Intake : 10
- Venue : NTH, Calcutta

DIMENSIONAL METROLOGY

DURATION - 5 DAYS

COURSE : T 12 C

| | |
|-----------------|--|
| Aim/Objective | : a) The participants will know about Linear Standards, Angular measurement and Calibration of measuring instruments. b) The Course will enlighten the participants to do calibration and precision measurements. |
| Course Contents | : Basic concept - Linear Standards - Angular measurement - Calibration of measuring instruments - Practical training in Calibration & precision measurement. |
| Methodology | : Theoretical and practical demonstration. |
| Eligibility | : Degree, Diploma in Engineering/Degree in Science with some experience. |
| Course Fee | : Rs. 3000/- per participant. |
| Intake | : 10 |
| Venue | : NTH, Calcutta |

CALIBRATION OF FORCE - PRESSURE & HARDNESS

DURATION - 5 DAYS

COURSE : T 13 C

- Aim/Objective : a) The participants will be able to know the calibration terminologies and different methods of calibration of force, pressure & hardness.
- b) The Course will enlighten the participants to do calibration work.
- Course Contents : Basic concept of calibration and terminologies
- Different methods of calibration of force, pressure, hardness - Practical training in calibration and data evaluation.
- Methodology : Theoretical and practical demonstration.
- Eligibility : Diploma in Engineering/Degree in Science with some experience.
- Course Fee : Rs. 3000/- per participant.
- Intake : 10
- Venue : NTH, Calcutta

TESTING OF LIFTING TACKLES & OTHER SAFETY ITEMS

DURATION - 2 DAYS

COURSE : T 14 C

- Aim/Objective : a) The participants will know about lifting tackles and machines.
- b) The Course will enable the participants to inspect, test and maintain the lifting tackles to ensure safety.
- Course Contents : Classification of lifting tackles and machines - Uses and functions - Methods of inspection and testing - Maintenance - Safety aspects.
- Methodology : Theoretical and Practical.
- Eligibility : Degree or Diploma in Engineering/Degree in Science with 6 months experience.
- Course Fee : Rs. 1500/- per participant.
- Intake : 10
- Venue : NTH, Calcutta