



PROSPECTUS



PAINTS AND COATINGS SKILL COUNCIL 

 qualityaustria central asia
ISO 29990 : 2010

 ASNT Corporate Partner



BLASTLINE INSTITUTE

OF SURFACE PREPARATION & PAINTING

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The BLASTLINE India (P) Ltd.

Blastline India (P) Ltd consists of a group of business entities catering to every need of the anti-corrosion industry in the country with overseas presence in various countries like Saudi Arabia, Kuwait, Qatar, Bahrain, UK and USA through their Associate Companies.

Led by a dynamic management team, it has been able to adopt to changing needs of the Industry and has forayed into all related niche areas like production and export of Machines , Accessories, Abrasives other specialized equipments and instruments used in the Anti-corrosion industry. It is also involved in major contract works in India and abroad as well as imports and distribution of high quality coating equipments and systems of foreign manufacturers.

Being passionate about the need for excellence in this Industry, having recognized the lack of facilities to train qualified professionals in this field, and as part of fulfilling their social commitment to the Industry, Blastline india has established a state-of-the-art training center in Cochin backed by various International Certification Bodies.

The Institute

The Blastline Institute of Surface Preparation and Painting (BISP), was originally established in 2006 to mould professionals in industrial grade anti-corrosion applications. However, its gamut of training programs was later expanded to include International Certifications in Welding and Coating Inspection as well as Non-Destructive Testing (NDT).

We have corporate partnerships or grading compatability with renowned international organizations such as :

1. **SSPC** (Society for Protective Coatings, USA)
2. **NACE** (National Association of Corrosion Engineers, USA)
3. **ASNT** (American Society for Non-Destructive Testing, USA)
4. **TWI** (The Welding Institute, UK)

BISP is also an authorised Training & Examination Center in "Painting and Coating" skill sector approved by National Skill Development Corporation (**N.S.D.C.**) - a body constituted by Government of India under its "Skill India" initiative.

Training programs conducted by BISP are executed by highly experienced Engineers and Instructors with the help of latest machineries and tools. The training and certification is so complete and up-to-date that those who pass out from BISP and enter the industry shall not be found wanting in their skills, capabilities or qualification.

Why Certification?

Indian Education system, is highly knowledge-centric, the consequence of which is that we have a large pool of talent having ample scientific knowledge but little skill in practically applying it in the real world.

This is where we step in. Having acquired many years of experience in the Protective Coating Industry, engineers of Blastline India (Pvt) Ltd know the exact requirements of the industry and what kind of training is required for personnel working in various levels of project execution.

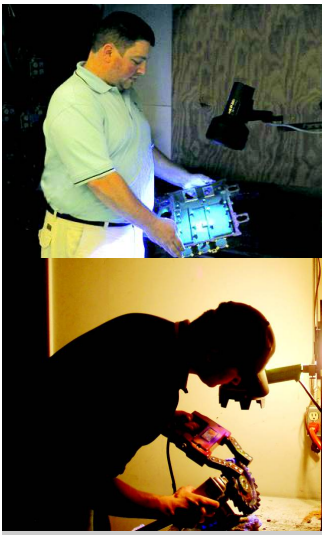
Training Technique

BISP follows internationally approved training seminar methodology. The batch size is limited to 20 students wherein there is ample room for togetherness, friendship, mutual respect and close interaction between faculty and students.

Personal attention is provided in a highly comfortable air-conditioned classroom and excellent results are ensured by :

1. Highly experienced professional Trainers
2. Continuous up-gradation of training methods.
3. High quality course materials and handouts.
4. Optimum use of electronic media presentations.
5. Industry visits and hands-on practical Classes
6. Study of cut-away sectional models
7. Ample provision of machineries, lab equipments, gauges, instruments and test specimens.





NDT Courses



What is ASNT ?

ASNT stands for “American Society for Non-Destructive Testing” and it happens to be one of the most reputed and authentic certification bodies in the field of NDT.

Among various certification levels of ASNT, the most sought - after one is ASNT level-2 which enables a person to set up and calibrate testing equipment, conduct the inspection according to codes and standards and compile work instructions for a team of technicians. They are also authorized to report, interpret, evaluate and document testing results. They can also supervise and train Level 1 technicians. In addition to testing methods, they will be familiar with applicable codes and standards and will have some knowledge of the manufacture and service of tested products

Some of the most popular testing methods are:

- Radiographic Testing (RT)
- Ultrasonic Testing (UT)
- Magnetic Particle Testing (MT)
- Penetrant Testing (PT)
- Radiographic Testing Film Interpretation (RTFI)

BISP Follows the NDT Level-2 Training in accordance with SNT-TC- 1A standards and practices Published by ASNT.

Duration of the course : 1 month for any four methods.
Minimum qualification: SSLC passed (as per document).

Courses in Non-Destructive Testing

Non-Destructive testing consists of a number of non-invasive techniques to determine the integrity of a material, component or a structure or quantitatively measure some characteristic of an object.

Or simply put it is “testing without doing harm to the object being tested”. Some typical applications of NDT are:

1. Flaw detection.
2. Leak detection
3. Location determination.
4. Dimensional measurements
5. Structure & micro structure characterization
6. Estimation of mechanical & physical properties.
7. Stress and dynamic response measurements
8. Material Sorting
9. Chemicals Composition Determination etc.,

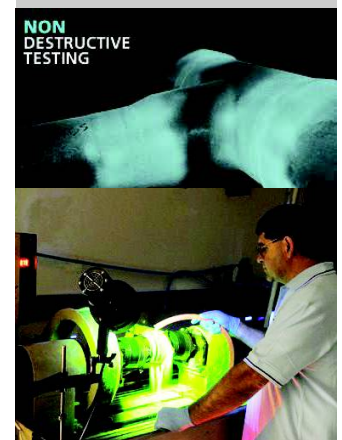


Applications

NDT is used in a variety of settings that covers a wide range of industrial activities in such diverse fields as:

- Automotive
- Aviation / Aerospace
- Powerplants
- Construction
- Maintenance and Repair
- Manufacturing
- Industrial plants such as Nuclear, Petrochemical, Power, Refineries, Pulp and Paper, Fabrication shops, Mine processing and their Risk Based Inspection Programmes.
- Pipelines
- Railways
- Wire Rope Testing for, Crane Wires, Rope-way Wires
- Medical imaging applications, to name a few.

Successful and consistent application of nondestructive testing techniques depends heavily on appropriate training, experience and integrity. Personnel involved in application of Industrial NDT methods and interpretation of results should be certified, and in some industrial sectors certification is enforced by law or by the applied codes and standards.





VISUAL TESTING (VT)

Visual Testing (or Inspection) course is ideal for inspection engineers, technicians, NDT operators or surveyors who require knowledge of scientific visual inspection techniques, an understanding of likely problem areas and an appreciation of this inspection methodology. This course outlines the factors influencing visual inspection, explains the importance of visual inspection in NDT among NDT methods and enable candidates to utilise a range of visual inspection equipment .

Course contents :

Introduction to visual inspection ;fundamentals of vision and light; introduction to NDT; visual inspection equipment ;factors influencing visual inspection ;product technology (welding ,casting, forging etc.);practical inspection methodology ;inspection ,weld repair and heat treatment requirements .

Dye Penetrant Testing (PT)

Dye (or Liquid) Penetrant testing is used to reveal those discontinuities, cracks or flaws which are open to the surface. All discontinuities which are subsurface will require an alternate NDT method for detection like Radiography or Ultrasonic testing. Liquid Penetrant and Magnetic Particle testing are most commonly used to detect surface discontinuities. A discontinuity or flaw is defined as an interruption in the normal configuration of a component. If a discontinuity or flaw will interfere with a components' usefulness, it is then called a defect.

Course Content:

Materials, methods, compatibility of materials, equipment and safety aspects; practical exercises; methods of assessing sensitivity.

MAGNETIC PARTICLE TESTING (MT)

The magnetic particle examination method is used for locating surface or near surface discontinuities in materials that have strong magnetic properties, such as iron or steel. Iron particles (referred to as a medium) are applied to the surface of the test object after or during the application of a magnetizing force to the test object. The particles accumulate at any discontinuity opening in the magnetic field to form a visual indication thereby detecting certain discontinuities that are present in the material. Since magnetic particle testing is capable of revealing discontinuities economically, it is one of the most widely used non-destructive test methods.

Course Content:

Principles of magnetism; magnetic fields; induction; permeability and reluctance; magnetisation; lines of force, methods of testing; interpretation of indications; demagnetisation; practical exercises; methods of assessing sensitivity; instruction writing.



ULTRASONIC TESTING (UT)

Ultrasonic testing is a versatile nondestructive evaluation method using high frequency sound beams to help detect internal discontinuities in a wide range of materials, including metals, plastics and composites. It is widely used for testing welds, forgings, bars/billets, tubing and tanks for corrosion.

Course Content:

Basic principles of sound; generation and detection of sound; behaviour of sound in a material; the flaw detector; use of angled beam probes for weld scanning; welding processes and weld defects; practical exercises on test specimens containing simulated flaws; examination of parent plate, butt welds; instruction writing.

RADIOGRAPHIC TESTING (RT)

Also called industrial radiography, RT is a NDT method of inspecting materials for hidden flaws by using the ability of short wavelength electromagnetic radiation to penetrate various materials. Since the amount of radiation emerging from the opposite side of the material can be detected and measured, variations in this amount (or intensity) of radiation are used to determine thickness or composition of material.

Course Contents :

Principles of X- and gamma-radiography; equipment; safety; selection of films and screens; exposure; processing; characteristics of the image; choice of technique; relevant standards; sensitivity, factors affecting the quality of radiographs etc.

RADIOGRAPHIC TEST FILM INTERPRETATION (RTFI)

This course is designed for Radiographers, inspectors, engineers and surveyors who wish to interpret radiographs and gain an in-depth understanding of the principles of radiography.

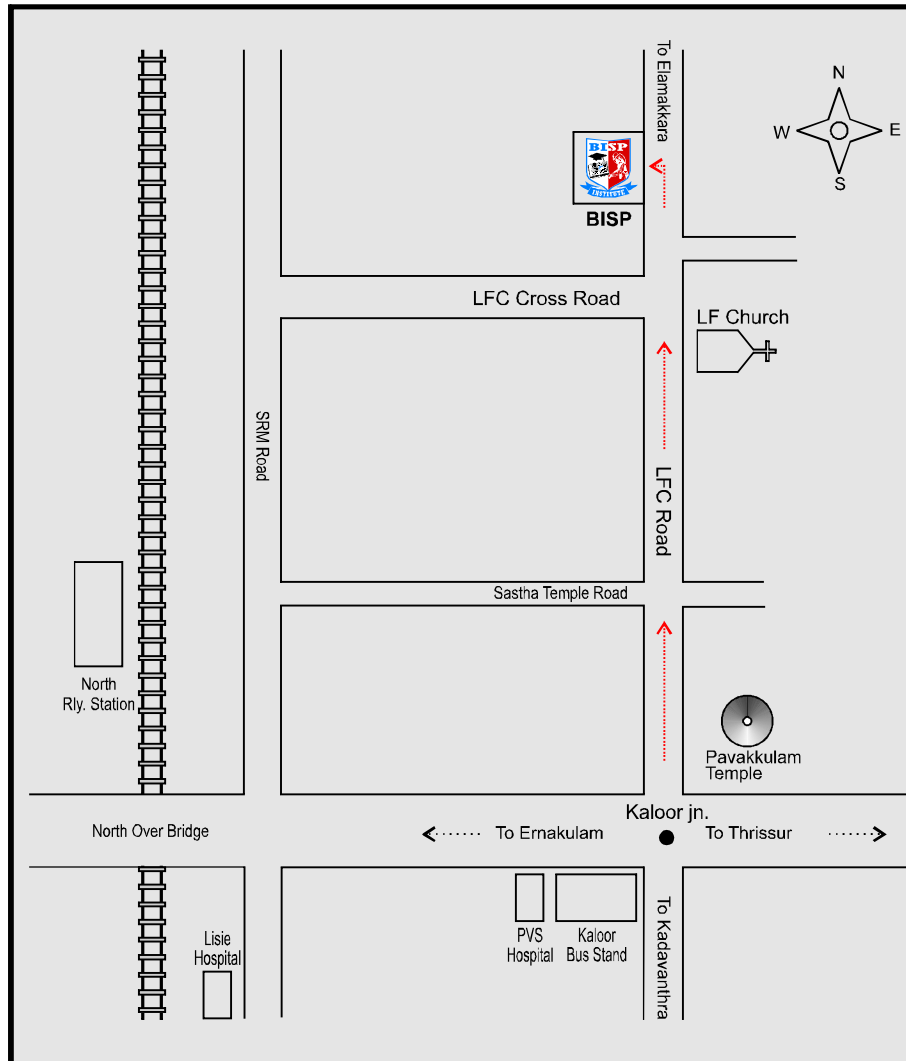
Course Content:

Principles of X- and gamma-radiography; equipment; safety; selection of films and screens; exposure; processing; characteristics of the image; choice of technique; relevant standards; sensitivity, factors affecting the quality of radiographs. Weld defects and their components; viewing conditions; identification of radiographs; spurious indications and film artefacts; appreciation of radiographic principles and parameters of interpretation; standards for radiographic practice, interpretation tutorial; acceptance criteria.





ROUTE MAP



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