

# Insight Quality Services

## TRAIN THE NDT TRAINER PROGRAM

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### 0 Program Title

#### Train The NDT Trainer

### 0 Tagline

An intensive program to gain a complete insight in how to be a successful NDT Trainer.

### 0 Dates

16<sup>th</sup> to 17<sup>th</sup> December 2021

### 0 Venue

Online (Zoom/MS Teams)

### 0 Prerequisites

The prerequisite for taking the preparatory training course is firstly a passionate interest in the subject of Training, and in NDT. There is no formal prerequisite for this program.

### 0 Takeaway

The whole concept of success in Training, and *of course*, the Training Course Notes!

### 0 Course Objectives

Turn yourself into a highly successful and effective NDT Trainer by...

1. Understanding your audience
2. Understanding the Psychology of trainers & trainees
3. Using tools, strategies, and techniques in a dynamic way to elevate the learning experience
4. Using activities, exercises and games to reinforce the learning
5. Learning Effective Presentation Skills
6. Understanding the Do's and Don'ts of Presenting
7. Understanding Transition from short-term to long-term memory
8. Making the atmosphere conducive for learning
9. Rendering power-packed Opening and Closing Sessions
10. Understanding the significance of subject expertise
11. Managing variables resourcefully
12. Measuring short term and long-term effectiveness of the training

## Who Should Attend?

- The program is basically meant for all who really want to share and communicate their valuable knowledge, skills and experience to others.
- Generally, NDT training is imparted by a subject expert, an NDT Level III, or an instructor. The course is more suitable for any of these or someone with a similar status.
- This seminar is suited to those who are fairly new to training, those who train on an occasional basis or the more experienced trainer who wishes to develop his/her skill and confidence as a trainer. It can give very good inputs for beginners and Non-NDT trainers.
- Any person directly or indirectly involved in Training activity.
- Any person wishing to gain an insight in professional Training activity.
- Any person with an avid interest in the field of training is welcome.
- It will be of particular interest to:  
Trainers, Facilitators and coaches, HR professionals, Project managers, Line managers, Operations professionals, IT professionals and Administrative / Support Managers.

## Why Should You Attend?

Training departments are beginning to realize that people do NOT learn effectively by passively consuming information. It is a waste of training expenses and resources and yields low return on investment.

Participants typically retain 5%-30% of information in average training programs. We show you how to make them increase retention up to 90% or more.

Our program gives you access to tools, strategies, and techniques orchestrated in a fashion that elevates learning to a new level of experience and efficacy.

Convert your potential and subject knowledge to make yourself a winner trainer through this program.

Learn to manage the available resources and overcome hurdles.

## Course Overview

**Train the NDT Trainer** program is about training those who provide training to others. To become an effective trainer, a combination of subject knowledge and strong training skills and know-how is very essential. Train the NDT Trainer program is **designed and intended to equip you with the skill and understanding to get your career as a 'trainer' on the right track.**

## Course Outline

As attached

## Evaluation and Close Out

A Mock-up Test will be given at the end of the program to assess the penetration of the subject and you get a chance to conduct a part of the training towards the end!

## Course Certificate

Attendance Certificate will be issued.

## Faculty:



**Name:** Mr. Diwakar D. Joshi

**Position:** Director, Insight Quality Services (Training, Inspection, NDT & Consultancy Services), Pune, India

### Qualification and Accreditations:

- B. E. Mechanical
- ASNT Level III (RT, PT, UT, MT, ET, LT, VT) – Certificate No. 60893
- RWTUV Certified – ISO 9712 Level 3 (RT, PT, UT, MT)
- ACCP Level III (RT, UT, PT, MT, VT)
- Senior Certified Welding Inspector (AWS)
- ISO 9000 Lead Assessor
- API 510 Pressure Vessel Inspector
- API 653 Aboveground storage Tank Inspector
- API 570 Authorized Piping Inspector
- API 571, API 577 & API 580 Authorized Inspector
- API 936 Refractory Practitioner
- API Tank Entry Supervisor
- API Source Inspector – Fixed Equipment
- API 1169 – Pipeline Construction Inspector

### Membership of Professional Institutes:

- American Society for Non-Destructive Testing (ASNT)
- American Welding Society (AWS)
- Life Member of Indian Society for Non-Destructing Testing (ISNT)
- National Certification Board (ISNT)
- President Elect of Indian Society for Non-Destructing Testing (ISNT).
- Member of ICNDT – WG1, (International Committee for Non-Destructive Testing – Working Group – 1)

### Publications:

Published Technical Papers in National and International Seminars on Non-Destructive Testing and Inspection, such as:

- **Qualification and Certification in NDE as per EN Standards**
- **NDE Requirements of In-Service Inspection Codes** (NDE 2014, Pune, India)
- **Training and Certification in Non-Destructive Testing –the ‘Make in India’ perspective** (NDE 2015, Hyderabad, India)
- **Journey of SNT-TC-1A from 1968 to 2016** (NDE 2016, Coimbatore)
- **Developing Training Activity to meet ISO 9712 standard requirements** (NDE 2017, Chennai)
- **Review of Changes in ASME Section V (NDE) Edition 2017** (NDE 2017, Chennai)
- **NDT Training Centres – Requirements and Challenges – [Invited Talk]** (NDE 2018, Mumbai)
- **ASME Section V Edition 2019 Code Changes – [NDE 2019, Bengaluru]**
- **SNT-TC-1 A Edition 2016 Implementation – [NDE 2019, Bengaluru]**
- **Current Trends in Training and Certification in NDE** (Keynote Presentation-NDE 2020 Virtual Conference and Exhibition on Non Destructive Evaluation)

### Conference Presentations:

- **The deciding factor in the success of NDT – NDT Examiners for Personal Qualification Examination**
  - (15<sup>th</sup> WCNDT- Roma - 2000)
- **Qualification and Certification of NDT Personnel – Concepts and Misconceptions**
  - (International Seminar and Exhibition, APCNDT 2013, Mumbai, India)
- **NDT Certification Practices in India & the Way Forward**
  - (International Seminar and Exhibition, APCNDT 2017, Singapore)

### Projects / Programs:

- NDE Examiners' Workshop organized by ISNT, Pune at Pune, India in the year 1999
- NDE Examiners' Workshop organized by ISNT, Pune at Pune, India in the year 2013
- NDE Examiners' Workshop organized by ISNT, Pune at Pune, India in the year 2017
- Initiative to organize and active participation in Question Bank Generation Project (NDT Level-II - RT, PT, UT, MT, LT, ET, VT) of National Certification Board of ISNT on 29<sup>th</sup> & 30<sup>th</sup> August 2015.

### Successful results achieved by current and past clients:

- Passing Rate more than 90% from the American Petroleum Institute (API) Examination Preparatory Training Programs
- Passing Rate more than 85% from the ASNT Level III Examination Preparatory Training Programs

### About your course facilitator:

Mr. Diwakar Joshi, Director, Insight Quality Services (Director and Consultant, Insight Quality Services, India and Managing Director, Insight Global FZE, Dubai, UAE), working in the field of Training, Consultancy, Inspection and NDT services is basically a mechanical engineer having about 45 years' experience in QA/QC and NDT field. **He has worked as an In-Service Pressure Vessel Inspector on Shell offshore platform through Velosi, Abu Dhabi.** with prestigious organizations like Walchandnagar Industries Ltd., Alfa Laval India Ltd., PT. Puspetindo, Indonesia and PT. Balcke-Durr, Indonesia.

He is a qualified Lead Assessor for ISO 9000, qualified ASNT Level III in RT,UT,MT,PT,VT,LT,ET, ACCP Level III Senior Certified Welding Inspector of AWS, API 510, API 653, API 570, API 571, API 577, API 580 Inspector, API 936 Refractory Practitioner, API Source Inspector and API Tank Entry Supervisor.

He is a member of many institutes world over, like AWS, ASNT, ISNT and NCB. He has many national and international papers to his credit, and is currently the President Elect of ISNT (Indian Society for Non-Destructive Testing). **Mr. Joshi is an approved member of ICNDT – WG1, (International Committee for Non-Destructive Testing – Working Group – 1) representing ISNT (Indian Society for Non-Destructive Testing) for Qualification and Certification.**

He has hands-on Experience of Quality Control and Quality Assurance of Pressure Vessels and Heat Exchangers, ASME U, U2 and N (Nuclear) Stamp Vessels, in-service inspection of the refinery equipments, and is NDT Level III for reputed fabrication companies. He has also worked for shutdown inspection in Saudi Arabia and off-shore platform inspection in Middle East.

Has conducted training courses in India, Bangkok (Thailand), Trinidad & Tobago (WI), Qatar, Bahrain, Saudi Arabia, Oman (PDO), Indonesia etc. and has trained and certified more than 10000 QA/QC Personnel, with over a 1000 training programs in various disciplines to his credit.

Presently, apart from Consultancy, Mr. Joshi is devoting major time in Training in the areas like API 510 / 653 / 570 / 580 / SIFE / 577 exams, AWS (CWI) exams, ASNT Level III exams, Train the Trainers and ASME Code Specific programs.

API training Courses for preparation of API 510, 570, 653, 580, 571, 577, SIFE (more than 100 programs) are conducted for Qatar Petroleum, Aramco, Bapco, Reliance, IOCL and other refineries, clients in Singapore, Thailand, Trinidad & Tobago (WI), and also in Insight Quality Services in Pune and Chennai, (India).

- API 510 - Qatar Petroleum, Bapco, IOCL, Reliance, IQS
- API 570 - Qatar Petroleum, Bapco, IOCL, Reliance, IQS
- API 653 - Qatar Petroleum, Bapco, IOCL, Reliance, IQS, Aramco
- API 580 - Qatar Petroleum, IQS
- API 571 - IQS, IGF
- API 577 - IQS, IGF
- API SIFE - IGF Dubai, M/s Stork, Trinidad and Tobago, IQS

**Partial list of companies that have benefitted from Mr. Diwakar's expertise:**

- Qatar Petroleum, Qatar
- Aramco, Kingdom of Saudi Arabia
- Bapco, Bahrain
- Reliance, India
- Indian Oil Corporation Ltd (IOCL), India
- PT. Puspetindo, Indonesia
- PT. Balcke-Durr, Indonesia
- Republic of Singapore Air Force, Singapore
- REZCOAT Inc, Philippines
- ASL Shipyard Pte Ltd., Singapore
- Mozzat Enterprise SDN BDH, Brunei
- Indonesia Institute of Non-Destructive Testing (IINDT), Indonesia
- Walchandnagar Industries Ltd., India
- Alfa Laval India Ltd., India
- Larsen & Toubro Ltd., India

**Testimonials:**

*"Mr. Joshi is very knowledgeable and has a broad knowledge of the topic."*

- **Air Force Engineer, RASF**

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*"Trainer is an expert in the subject and excellent presentation style."*

- **Project Manager, ASL Shipyard Pte Ltd.**

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*"Dear Sir,*

*I enjoyed being taught by you immensely, you are an excellent teacher and have inspired me to continue learning with an open and positive mind. I appreciate all your hard work and dedication towards teaching. Especially the examples you give during the sessions for easy understanding."*

**Atul Kalkeri**

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*"Hi sir,*

*I am so happy to inform you that I have passed 510. This morning I have received my result. I will never forget your help and guidance on this occasion. thanks for everything all of you. hope to see you soon in India."*

- **Saravanan (Australia)**

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"Dear Sir,

I would like to inform you that two of us at NRL had appeared for API'510 exam (Dec 2011) after attending your training programme at our site. It is my pleasure to inform you that both of us have successfully cleared the exam on our first attempt.

In this regard I would like to thank you for the wonderful training programme conducted by you which provided us with the necessary insight & technical knowledge. Without your training programme it would have been quite an uphill task for us to clear the API 510 examination.

Details are as below:

Candidate Name	Exam Detail	Marks Scored	Certification No.
Javed Mohammed	API 510 (Dec 2011 exam)	134/150	42886
Deepjyoti Deka	-do-	138/150	42888

Regards,  
Javed Mohammed  
Officer (Inspection)  
Numaligarh Refinery Limited.

(India)

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### Co-Faculty:



**Name:** Mr. Surendra A.Mungel  
**Position:** Manager - Consultancy Department (ISO)  
**Organization:** Insight Quality Services, Pune, India

#### **Qualification and Accreditations:**

- B. E. Mechanical
- ASNT Level III (RT, PT, UT, MT)
- ISNT Level III (RT, MT)
- API 510 Pressure Vessel Inspector
- ISO 9000 Lead Assessor
- ISO 14001 Lead Auditor
- OHSAS 45001 Lead Auditor

#### **Additional Qualifications:**

- Diploma in Information Technology
- Advanced Diploma in French
- Diploma in Materials Management

## Membership of Professional Institutes:

- American Society for Non-Destructive Testing (ASNT)
- Life Member of Indian Society for Non-Destructing Testing (ISNT)

## Publications:

Published Technical Papers in National and International Seminars on Non-Destructive Testing and Inspection, such as:

- **Training and Certification in Non-Destructive Testing –the ‘Make in India’ perspective** (NDE 2015, Hyderabad, India)
- **Developing Training Activity to meet ISO 9712 standard requirements** (NDE 2017, Chennai)
- **NDT Training Centres – Requirements and Challenges – [Invited Talk]** (NDE 2018, Mumbai)
- **NABL Certification for NDT Laboratories** (NDE 2019, Bengaluru)

## Training Activities

Conducted numerous (more than 150) following open training programs in IQS for various industries and candidates.

<ul style="list-style-type: none"><li>• <b><u>Faculty for training in</u></b><ul style="list-style-type: none"><li>➤ Awareness</li><li>➤ System Elements</li><li>➤ Implementation</li><li>➤ Auditing of ISO 9001- Quality management System</li><li>➤ ISO 14001 - Environmental Management System</li><li>➤ ISO 45001 - Health and Safety Management System</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b><u>Trainer for Soft Skills programs like</u></b><ul style="list-style-type: none"><li>➤ Business Management</li><li>➤ Communication Skills</li><li>➤ Creativity At Work-Place / Practical Creativity</li><li>➤ Customer Service</li><li>➤ Data Analysis</li><li>➤ Decision Making</li><li>➤ Effective Marketing</li><li>➤ Interpersonal Relationship</li><li>➤ Junior Management Development Program</li><li>➤ Leadership Skills</li><li>➤ Outsourcing Management</li><li>➤ Positive Thinking</li><li>➤ Problem Solving</li><li>➤ Supervisory Skills Development</li><li>➤ Time Management</li></ul></li></ul>
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- Faculty for PT, MT, RT and UT Level I/II programs as per SNT-TC-1A.
- Faculty for PT, MT, RT and UT Level III preparatory programs for ISNT/ASNT exams.

## Consultancy Activities –

- **Health & Safety Audits:**  
Conducted more than 500 Health, Safety & Environment audits as per given criteria for suppliers of a multi-national organization.
- **ISO 9001 Consultancy:**  
Quality management System consultancy completed for small scale to multinational organizations.
- **ISO 14001- Environmental Management System**
- **ISO 45001- Health and Safety Management System**
- **Safety Systems Consultancy:**  
Done as per requirements of organizations

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## **For Registration and Training Charges please contact:**

### **Contact Details:**

➤ **CANDIDATES FROM INDIA, PLEASE CONTACT:**

- **Mrs. Kadambari Joshi & Mr. Sanjog Nevgi**
- Contact Nos.: +91 96899 28561 / +91 98812 44118

➤ **CANDIDATES FROM OUTSIDE INDIA, PLEASE CONTACT:**

- **Ms. Smita Barmukh**
- Contact No.: +91 83800 63853

- For further details, you can send email on: **support@iqs-ndt.org** or submit your enquiry through our website [www.iqs-ndt.org](http://www.iqs-ndt.org) (<https://www.iqs-ndt.org/contact>)
- **Online Platform:** Zoom or MS Teams
- **Time:** 09.00 am to 5.30 pm. (Daily Contact Hours: 7)

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## **Insight Quality Services**

Office No.507/508, 5th Floor,  
Office No.414, 4th floor,  
Building No.1, Siddharth Towers,  
Sr. No. 12/3B, Near Sangam Press,  
Kothrud, Pune : 411 029, Maharashtra, India.  
E-Mail: [support@iqs-ndt.org](mailto:support@iqs-ndt.org) | Website : [www.iqs-ndt.org](http://www.iqs-ndt.org)  
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The program outline is as follows:

**Train the NDT Trainer Program**

Session	Day 1	Time Allotted		Day 2	Time Allotted
Session 1	<ul style="list-style-type: none"> <li>❖ Registration</li> <li>❖ Welcome &amp; Introduction</li> <li>❖ Course Objective</li> <li>❖ Benchmark Questionnaires</li> <li>❖ <b>Understanding Training Cycle</b></li> </ul>	09.00 am to 10.45 am		<ul style="list-style-type: none"> <li>❖ <b>Training Methods: Part II</b></li> <li>❖ Questionnaires</li> <li>❖ Demonstration</li> <li>❖ Brief on CBTs</li> <li>❖ <b>Training Delivery Part I On Training Day</b></li> <li>❖ Icebreaking</li> <li>❖ Making the participants comfortable</li> <li>❖ Presentation Skills</li> <li>❖ Communication Skill and effective closing</li> <li>❖ Importance of subject knowledge in depth</li> <li>❖ Handling different situations in training</li> </ul>	09.00 am to 10.45 am
	<b>Tea Break</b>	10.45 am to 11.00 am		<b>Tea Break</b>	10.45 am to 11.00 am
Session 2	<ul style="list-style-type: none"> <li>❖ Training Need Identification</li> <li>❖ <b>Developing Training Program</b>, Power Point Presentations, Self-Preparation Notes</li> </ul>	11.00 am to 01.00 pm		<ul style="list-style-type: none"> <li>❖ Specific inputs for teaching different NDT methods (RT, PT, MT, UT, VT)</li> <li>❖ Teaching General Programs</li> </ul>	11.00 am to 01.00 pm
	<b>Lunch Break</b>	01.00 pm to 02.00 pm		<b>Lunch Break</b>	01.00 pm to 02.00 pm
Session 3	<ul style="list-style-type: none"> <li>❖ Psychology of Learner</li> <li>❖ Understanding Adult Learners Requirements</li> <li>❖ Retention – long term, short term</li> <li>❖ <b>Requirements of good Trainer</b></li> </ul>	02.00 pm to 03.45 pm		<ul style="list-style-type: none"> <li>❖ <b>Training Delivery Part II</b></li> <li>❖ Do and Don'ts in training Demonstrations</li> <li>❖ Demonstration by Students</li> <li>❖ Measuring effectiveness of training</li> <li>❖ Brief on Computer Based Testing</li> <li>❖ Training sessions by the participants</li> </ul>	2.00 pm to 3.45 pm
	<b>Tea Break</b>	03.45 pm to 04.00 pm		<b>Tea Break</b>	03.45 pm to 04.00 pm
Session 4	<ul style="list-style-type: none"> <li>❖ <b>Training Methods: Part I</b></li> <li>❖ Lesson plan, preparation, presentation, application follow-up, Videos, PPTs, Audio, Group Discussion, Training Notes, case studies, other activities</li> <li>❖ Lecturing</li> </ul>	04.00 pm To 05.30 pm		<ul style="list-style-type: none"> <li>❖ Evaluation of training sessions conducted by participants</li> <li>❖ Post-course evaluation</li> <li>❖ Way Ahead!!</li> </ul>	04.00 pm to 05.30 pm

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