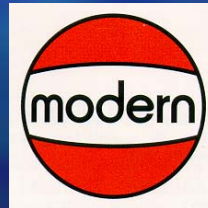


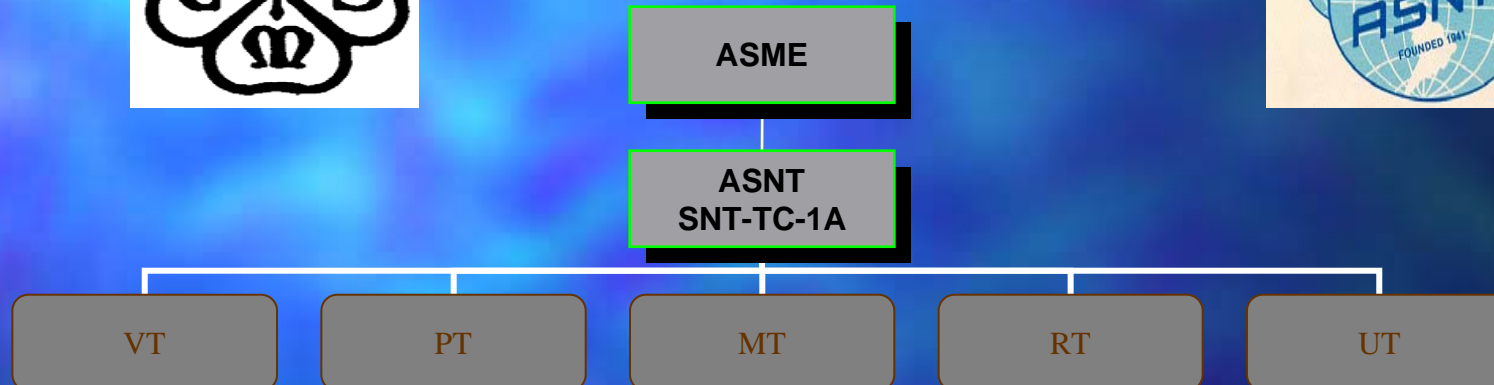
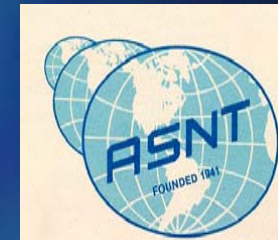


Steel Plate Fabricators Association

NDE Training



ASME Section VIII Division 1 NDE Personnel Requirements



ASNT Certifications

- **ASNT NDT Level III**
 - Passed Basic and Method Exams
- **ACCP Central Certification Program**
 - Level II
 - Passed, NDT Level III and a Practical exam & tested on procedure writing skills
- **CP 189** Approved Procedure for Certifying NDT Personnel ~ Level I, II & III
- **SNT-TC-1A** ~ Written Practice Required
 - Recommended Practice ~ Level I, II & III

ASNT SNT-TC-1A

Three Basic Levels

■ **Level I**

- Perform Specific Calibrations
- Perform Specific Evaluations for Acceptance or Rejection to Written Instruction
- Record Results ~ Inspection Records
- Should have instructions from Level II or III

■ **Level II**

- Setup Calibrations
- Interpret Evaluation for Acceptance or Rejection
- Organize and Record Results ~ Inspection Records
- Setup Calibrations
- Provide on-the-job Training for Level I

ASNT SNT-TC-1A

Three Basic Levels

■ Level III

- Developing, Qualifying Procedures
- Interpret Results with respect to Codes, Standards & Specifications
- Training for Qualification & Certification
- Must be familiar with other NDE methods, material & fabrication

ASNT SNT-TC-1A

Employer May Subdivide

- **Level I – Limited**
 - Same qualification as Level I but Limited to their certification
- **Level II – Limited**
 - Same qualification as Level I but Limited to their certification
- **Level III – Not Subdivide**
 - Same as Level III

NDE Certification by Process

- VT Level I & II Not Subdivided
- PT Level I & II Not Subdivided
- MT Level I & II and Level I & II-Limited
 - Limited = Prods and Yoke Only
- RT Level I & II and Level I & II-Limited
 - Limited = X-Ray of Film Interpretation Only
- UT Level I & II Not Subdivided

Advantage of Subdividing

- **Reduced Training Time**
 - RT Level II 40hrs
 - RT Level II-L 20 hrs
- **Fewer Questions per Examinations**
 - RT Level II 40 Questions
 - RT Level II-L 20 Questions
- **Less Time Experience Required**
 - RT Level II 9 months or 1,557 hrs
 - RT Level II-L 2.25 mounts or 390 hrs

Training

- **Training ASNT Materials**
 - Home Study Course
 - Class Room Training Books
 - Instructor Training Books
- **Certification Examinations**
 - Published Question and Answer Series
- **ASNT**
 - www.asnt.org
 - 800-222-2768 ~ 614-274-6899



Examinations Level I & II

- **General**
 - Closed Book ~ General question relating to the process
- **Specific**
 - Open Book
 - Level I NDE Procedures
 - Level II ASME Code, ASME Section V & VIII, Div. 1
- **Practical**
 - Perform the NDE Examination based on a checklist
- **Other Certifications**
 - AWS CWI ~ NDE VT Level II
 - AWS RT Film Interpretation
 - ASNT Certifications Level II ACCP

VT Visual Examination

- **QC, NDE Inspector Level I & II**
 - Study ~ Before, During & After Welding
 - AWS Symbols and Terms & Definitions
 - VT Procedures and Code Requirements
-
- **Welder ~ Certified VT Level I**
 - Study ~ Before, During & After Welding
 - AWS Symbols and Terms & Definitions
 - VT Procedures and Weld Quality Requirements



MT Magnetic Particle Examination

- **ASME Section VIII, Div. 1 APP. 6**
- Certification of Competency
 - Eye Exam ~ Jaeger No. 2
 - Competent in technique
- **ASNT SNT-TC-1A**
- Certification by Examination
- May be Level I & II or Limited



PT Liquid Penetrant Examination

- **ASME Section VIII, Div. 1 APP. 8**
- Certification of Competency
 - Eye Exam ~ Jaeger No. 2
 - Competent in technique
- **ASNT SNT-TC-1A**
- Certification by Examination
- Not Limited
 - Water Washable-Solvent Removable-Post Emulsified



RT Radiographic Examination

- **ASME Section VIII, Div. 1, UW-54**
 - ASNT SNT-TC-1A
 - ASNT CP-189
 - ACCP
- **ASNT SNT-TC-1A**
 - Certification by Examination
 - Not Limited or Limited
 - To X-Ray Only
 - Film Interpretation Only



Ultrasonic Examination

- **ASME Section VIII, Div. 1, Appendix 12**
 - ASNT SNT-TC-1A
 - ASNT CP-189
 - ACCP
- **ASNT SNT-TC-1A**
 - Certification by Examination
 - Not sub-divided





Modern Welding Company

Steel Plate Fabricators Association

NDE Training
September, 2009