



AMERICAN SOCIETY for NONDESTRUCTIVE TESTING

Recommended Practice

No. SNT-TC-1A

(June 1980 Edition)

THIS DOCUMENT IS INTENDED AS A GUIDELINE FOR EMPLOYERS TO ESTABLISH THEIR OWN WRITTEN PRACTICE FOR THE QUALIFICATION AND CERTIFICATION OF THEIR NDT PERSONNEL. IT IS NOT INTENDED TO BE USED AS A STRICT SPECIFICATION.

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FOREWORD

The recommended practice contained herein establishes the general framework for a qualification and certification program. In addition, the document provides recommended educational, experience, and training requirements for the different test methods. Supplementary documents include question and answer lists which may be used in composing examinations for nondestructive testing personnel.

Inquiries related to this recommended practice should be directed to the Chairman of the Personnel Qualification Division, at the following address:

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CONTENTS

PERSONNEL QUALIFICATION AND CERTIFICATION IN NONDESTRUCTIVE TESTING

Page

4	Scope
4	Definitions
4	Nondestructive Test Methods
4	Levels of Qualification
5	Written Practice
5	Education, Training and Experience Requirements for Initial Qualification
5	Training Programs
6	Examinations
8	Certification
9	Termination
10	Table 6.3.1 (Recommended Initial Training and Experience Levels)

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PERSONNEL QUALIFICATION AND CERTIFICATION IN NONDESTRUCTIVE TESTING

1. SCOPE

- 1.1 It is recognized that the effectiveness of nondestructive testing (NDT) applications depends upon the capabilities of the persons who are responsible for, and perform, nondestructive testing. This Recommended Practice has been prepared to establish guidelines for the qualification and certification of nondestructive testing personnel whose specific jobs require appropriate knowledge of the technical principles underlying the nondestructive tests they perform, witness, monitor, or evaluate.
- 1.2 This document provides guidelines for the establishment of a qualification and certification program.
- 1.3 These guidelines have been developed by the American Society for Nondestructive Testing to aid employers in recognizing the essential factors to be considered in qualifying employees engaged in any of the test methods listed in Par. 3.
- 1.4 It is recognized that these guidelines may not be appropriate for certain employers' circumstances and/or applications. In developing a written practice as required in Par. 5, the employer shall review the detailed recommendations presented herein, and shall modify them as necessary to meet particular needs.

2. DEFINITIONS

- 2.1 Terms included in this document are defined as follows:
 - (1) Qualification — Demonstrated skill, training, knowledge and experience required for personnel to properly perform the duties of a specific job.
 - (2) Certification — Written testimony of qualification.
 - (3) Certifying Agency — The employer of the personnel being certified.

- (4) Recommended Practice — A set of guidelines to assist the employer in developing uniform procedures for the qualification and certification of nondestructive testing personnel to satisfy the employer's specific requirements.
- (5) Employer — The corporate, private, or public entity which employs personnel for wages, salary, fees, or other considerations.
- (6) Training — The program developed to impart the knowledge and skills necessary for qualification.

3. NONDESTRUCTIVE TEST METHODS

- 3.1 Qualification and certification of nondestructive testing personnel in accordance with this Recommended Practice is applicable to each of the following methods:

- | | |
|----------------------------------|-------|
| (1) Radiographic Testing | (RT) |
| (2) Magnetic Particle Testing | (MT) |
| (3) Ultrasonic Testing | (UT) |
| (4) Liquid Penetrant Testing | (PT) |
| (5) Eddy Current Testing | (ET) |
| (6) Neutron Radiographic Testing | (NRT) |
| (7) Leak Testing | (LT) |
| (8) Acoustic Emission | (AE) |

4. LEVELS OF QUALIFICATION

- 4.1 There are three basic levels of qualification. These levels may be further subdivided by the employer for specific situations where additional levels of skills and responsibilities are deemed necessary.
- 4.2 While in the process of being qualified and certified to NDT Level I, an individual should be considered a Trainee. A Trainee should work with a certified individual and shall not independently conduct any tests, interpret or evaluate the results of a test, or report test results.