

SCWI Study Guide NONDESTRUCTIVE INSPECTION OF WELDS

Part I—INTRODUCTION

This section of the Senior Welding Inspection Technology Manual is based on requirements set out in the American Welding Society (AWS) document, QC1-96. Subsection 5 deals with "Education and Experience Requirements". Paragraph 5.1.8 specifies that applicants for certification as a SCWI, among other qualifications, "Shall be familiar with, understand, and be capable of specifying, planning, and/or supervising personnel performing the following activities:"

| | | | |
|----|----|-----|------------------|
| VT | UT | RT | *QA Audits |
| MT | PT | AET | *QA Surveillance |
| LT | ET | | *QA Procedures |

The first topic of Module 4 of this program is a review of visual inspection (VT) from the perspective of the SCWI. Then, the other listed NDE methods are considered. The QA functions ("starred" [*] above) have already been dealt with in Module 2 of this program.

While the mechanics of each NDE method will be reviewed, the principal thrust is the development, implementation and supervision of the procedures. It is not a requirement that the SCWI be able to perform NDE. However, it is essential the SCWI has a sound grasp of the principles and practices pertaining to each of the above methods.

Further, it is vital to have a thorough knowledge of the applicable variables and their influence on the result. Environmental and safety considerations are also within the responsibilities of the SCWI. A copy of ANSI/ASC Z49.1, Safety in Welding, Cutting and Allied Processes should be a safety reference for each SCWI.

Certain abbreviations will be used throughout Module 4. In most instances, the whole term or expression will be spelled out and the abbreviation shown in parenthesis following the first use of the term.

Terms and Definitions

There are certain terms and definitions, over and beyond those of AWS A3.0, Standard Welding Terms and Definitions that should be clearly understood. These include:

- NDE Method
- NDE Technique
- NDE Procedure
- NDE Instruction
- NDE Report
- NDE Overview

NDE Method

A discipline applying a physical principle used in nondestructive examinations. For instance, radiographic testing, the basic elements of which are shown in Figure 4.1.1. NDE Technique

A specified way of utilizing an NDE method. By way of an example, radiographic fluoroscopy, a diagram of which is shown in Figure 4.1.2.

NDE Procedure

Scwi Study Guide

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