
NDT FPI LEVEL 1 STUDY GUIDE EXAM QUESTIONS WITH ANSWERS 2025/2026 GRADED A+

When using a pulse and modification penetrant, it is necessary to apply the emulsifier

- A. Before applying to penetrant.
- B. After the water wash operation.
- C. After the dwell time has elapsed
- D. After the development time has elapsed. - C. After the dwell time has elapsed.

When conducting a water washable liquid penetrant test, the web developer is applied

- A. Immediately after the penetrant has been applied.
- B. Immediately before the penetrant is applied.
- C. After removal of the penetrant.
- D. After removal of the emulsifier. - C. After removal of the penetrant.

The term used to describe the action of a particular developer, and soaking up the penetrant in a discontinuity so as to cause the maximum bleed out of the liquid penetrant for increased contrast and sensitivity is known as

- A. Blotting.
- B. Capillary action.
- C. Concentration.
- D. Attraction. - A. Blotting.

Using a black light lamp with a cracked filter, or without a filter in place can cause damage to human eye because the lamp admits

- A. Black light.
- B. Ultraviolet light.
- C. Infrared light
- D. None of the above. - B. Ultraviolet light.

The term used to define a period of time in which the test part is completely covered with penetrant is

- A. Waiting time.
- B. Soak time
- C. Penetration time.
- D. Bleed in time. - C. Penetration time.

Usually the most desirable method of removing excess water washable penetrant after the dwell time is by using

- A. A low pressure coarse water spray.

Ndt Study Guide

James Cousin



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ASNT Level III Study Guide, 2016 This study guide is intended to aid individuals preparing to take the basic examination as part of becoming certified as an ASNT NDT level III in one or more NDT methods Page iv *ASNT Level III Study Guide* Matthew J. Golis, American Society for Nondestructive Testing, 1997-12-01 [Introduction to Piping Quality Control](#) Ram Babu Sao, 2025-03-23 The terms Quality Control and Quality Assurance are often used interchangeably but they are not synonymous Quality Assurance is a program executed by company management Quality Control is a task that takes place on the production floor Two aspects are quality control QC and quality assurance QA Understanding these programs and their roles is critical in making sure the respective engineer to carry out their duties effectively There are three most important criteria for evaluating the Quality Control of work such as Cost Time of delivery and Quality Quality is most important factor out of the three Quality isn't simply a cost It is a powerful tool that contributes to the economic success of the work Therefore there is need to control all three but quality is the most significant Many manufacturers recognize that quality leads to a higher customer retention rate and helps to build competitive boundaries However the term quality by itself isn't sufficient ISO 9000 definitions the QC is the operational techniques and activities that are utilized to fulfil requirements for quality and QA is all those planned and systematic activities implemented to provide adequate confidence that the entity will fulfil requirements for quality QC is a production line function The aim of QC is to offer the highest reasonable quality of product or service to the client thereby meeting or even exceeding the client's requirements The QA manager is interested in investigating technologies and processes that prevent defects QA is a staff function The aim of QA is to apply a planned and systematic production process establishing confidence that the process generates suitable products QC method is intended to provide regular product inspection thereby guaranteeing the output's correctness completeness and integrity It finds and addresses mistakes They file and record all the QC procedures The product or service needs to be suitable and fit for the intended purpose The methods and processes should decrease errors and shortcomings the first time through the manufacturing process QC is product oriented it focuses on tests and inspections carried out at various production line checkpoints QA is process oriented its concerns are process definitions proper selection of tools proper use of testing methods and operator training QC works at locating defects QA works at preventing them QC emphasizes testing of products to discover defects and reporting the results to management QA attempts to improve and stabilize production to minimize or prevent the conditions that trigger defects Typically quality control involves problem identification problem analysis problem correction and feedback Quality assurance involves data collection problem trend analysis process identification process analysis and process improvement

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