

# **ASME Nondestructive Examination and Quality Control Central Qualification and Certification Program ANDE-1-2020 Update**

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The American Society for Mechanical Engineers (ASME) has developed a Nondestructive Examination (NDE) and Quality Control (QC) personnel qualification and certification program (ANDE-1). In keeping with ASME development of codes and standards the NDE program was assembled by industry experts to address documented issues. This central certification program is initially being implemented by the Nuclear Specific Industry Sector (NSIS). The ASME standard approved by the American National Standards Institute (ANSI) and was initially published by ASME on November 18, 2015. The ANDE-1 standard was developed based on industry best practices and lessons learned. The program is a significant paradigm shift from the traditional employer based and other central qualification and certification programs. The new standard includes features such as the Systematic Approach to Training (SAT), Job Task Analysis (JTA) and Qualification Cards to direct the development of training and experience and subsequent certification. The program is designed to improve the knowledge and skills of NDE practitioners. The program uses performance-based principles including psychometric practices in the development of both written and practical demonstration examinations. The approach is to significantly improve NDE performance. Based on lessons learned during the initial implementation the standard was updated in 2020. In addition to several clarifications within the standard, the major revision is the incorporation of Mandatory Appendix III, Qualification and Certification of Nondestructive Testing Personnel to International Standard ISO 9712. The 2020 edition is being updated to incorporate additional lessons learned including a major revision to Appendix I to address Code Case N-788-2 and Appendix III to address the latest revision of ISO 9712. This presentation focuses on the differences in the ANDE-1 standard and current NDE personnel qualification and certification schemes. Participants will become familiar with how the implementation of the standard strengthens the performance of testing personnel and improves outcomes in NDE certification programs.