

Collaborative Innovators: ASME ANDE-1-2020 Standard Partners

Explore the collaborative journey behind the ASME ANDE-1-2020 Standard, a testament to innovation and partnership.

KEY SUPPORTERS

CHATTANOOGA STATE
COMMUNITY COLLEGE



OTHER CONTRIBUTING ENTITIES

American Society of
Mechanical Engineers
Nuclear Regulatory
Commission

US Utilities
NDE Service Suppliers
Government Agencies

Join the Movement to Build the NDE/QC Community Team of Champions



National Board of Boilers Inspectors (NBBI) is currently in discussion to become Certifying Body (CB) for ANDE-1 certification.

CB (Certifying Body)

- ▶ Candidate qualification verification for exam participation
- ▶ Evaluates exam results
- ▶ Issues ASME ANDE-1 certifications for NDE and QC

AQB (Authorized Qualifying Body)

- ▶ Candidate qualification verification for exam participation
- ▶ Administer ASME ANDE-1 written and practical exams
- ▶ Oversight of DTOs
- ▶ Submit records to CB for certification review

DTO (Designated Test Organization):

- ▶ Administer ASME ANDE-1 written and practical demonstrations as delegated by the CB or AQB
- ▶ Submit records to CB for certification review

ANDE-1 Community

- ▶ Societies - Promote the ASME ANDE-1 certification among members.
- ▶ Practitioners seeking performance excellence that is backed by a globally recognized certification

Trailblazers:

- ▶ ASME ANDE-1 Transitional Level III will be provided fast track to ASME ANDE-1 certification
- ▶ Application Requirements:
 - Current NDE and QC Level III Inspector
 - Current Level III certification based on third party examinations
 - 5 years experience as Level III
- ▶ Duties
 - Administer On-the-Job-Training and Task Performance Evaluation
 - Ensure candidates have the skills, knowledge, and ability to successfully perform inspection in their area of certification.
 - Certify personnel ANDE-1 Qualification Card



Chattanooga State was the first, and is currently the only, Designated Test Organization (DTO).



More DTOs and ANDE-1 Transitional Level III Inspectors are needed.

Learn how you can participate.
Scan the QR code to indicate your areas of interest.

ASME's NDE/ QC Personnel Qualification and Certification Standard ANDE-1

CHATTANOOGA STATE
COMMUNITY COLLEGE

ASME's NDE/QC Personnel Qualification and Certification Standard ANDE-1

Explore the groundbreaking ASME ANDE-1 standard, revolutionizing NDE and Quality Control certification worldwide.

▶ THE PROBLEM: Human performance issues and lack of standardization in personnel qualification and certification

Over 40 years of round robin studies and industry events have highlighted problems

Weaknesses in employer self-certification programs

Non-standard training, experiences, and written and practical examinations

Current "TIME" based processes are not aligned with industry best practices

▶ THE SOLUTION: Systematic Approach to Training

- SAT is a proven industry best practice and has demonstrated reliable results for over 75 years in the military and industry.

▶ ANDE-1 is the first NDE/QC PQ&C standard to:

- Implement a systematic approach to training
- Standardize the evaluation process by integrating the BOK, JTA, and Qual Cards

ASME ANDE-1 Standard increases the safety, quality, efficiency, and predictability of NDE and QC inspection.

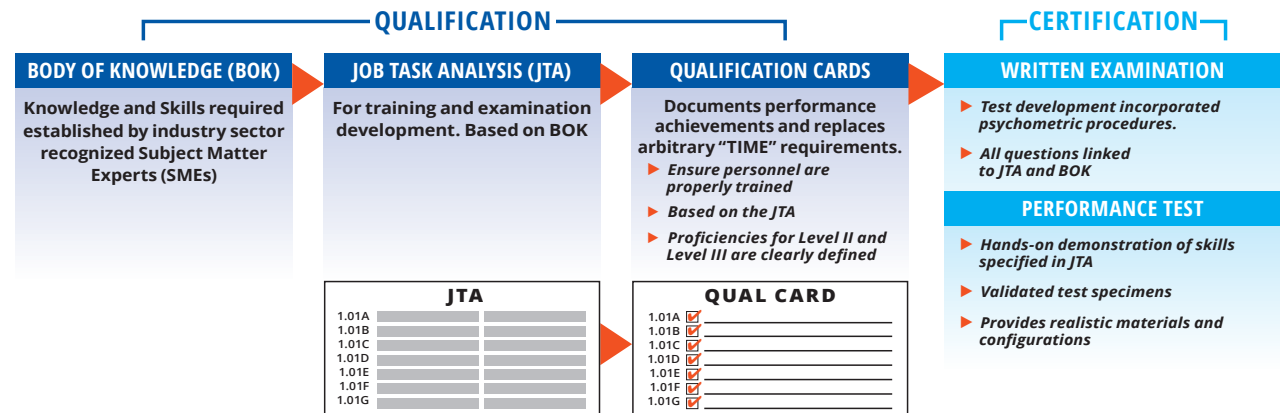
CERTIFICATION UPON DEMONSTRATION



The Standard Offers Dual Certification to ANDE-1 and ISO 9712, Ensuring Quality and Competence

Discover the innovative certification process of the ASME ANDE-1 standard, instilling reliability and confidence in the industry.

QUALIFICATION COMPONENTS FOR CERTIFICATION



DUAL CERTIFICATION ▶ ISO-9712:2021 certification can be awarded through achieving ASME ANDE-1 certification.

IMPACT AND BENEFITS

- ▶ Third party transportable certification.
- ▶ Complies with industry best practice, Systematic Approach to Training (SAT).
- ▶ Meets the Specific Industry Sector (SIS) requirements to improve performance issues.
- ▶ Addresses manpower shortage by allowing individuals progress at their own proficiency rate

KEY ACHIEVEMENTS

- ▶ **ASME ANDE-1 approved** by American National Standards Institute (ANSI), published by ASME, and available at asme.org.
- ▶ ASME ANDE-1 is first standard to offer **dual certification for ASME ANDE-1 and ISO 9712**.
- ▶ **Chattanooga State** awarded a US Department of Labor grant to fund ANDE-1 program development in collaboration with ASME. Established as the **first "Designated Test Organization (DTO)"**. (chattanoogaastate.edu)
- ▶ **FlawTech** manufactured and validated practical demonstration specimen for DTO (flawtech.com).
- ▶ **OOGA Technologies** is a provider of web based services for NDE applications, examinations, and file storage. (oogatechnologies.com)
- ▶ **International Institute for NDE (I-INDE)**, a 501 (c) (3) non-profit, supports the Specific Industry Sectors (SIS) in implementing and maintaining the ANDE-1 standard requirements. (iinde.org)