

ASTM

**Russian Federal Agency on Technical
Regulations and Metrology Workshop**

**Products to Support Trade and Industry
(Petroleum Sector)**

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Introduction

- Many standards are straightforward and can be used without specialized training or the need for detailed conformity assessment programs.
- However, for some of the more detailed and complex standards to be used most effectively, they should be supported by training and conformity assessment programs.
- This presentation summarizes ASME Codes, Standards, Conformity Assessment and Training programs that support the petroleum sector.

ASME Products to Support the Petroleum Sector

- Codes and Standards
- Conformity Assessment Programs
- Training Courses

ASME Codes and Standards

- Component standards to ensure dimensional compatibility and to provide pressure / temperature ratings of piping, pipe threads, flanges, fittings, gaskets, etc.
- Piping design and construction standards.
- Boilers and pressure vessels.
- In-service inspection, fitness-for-service evaluation, repair and testing.

Conformity Assessment

- ASME Product Certification Programs:
 - Boilers & pressure vessels
 - Nuclear components
 - Nuclear materials
 - Reinforced thermoset-plastic tanks

Conformity Assessment (continued)

- ASME Accreditation Programs:
 - Pressure relief device testing laboratories
 - Boiler & pressure vessel inspection agencies (AIAs)
 - Elevator inspector certification bodies

Training

- ASME Training Courses:
 - Power Piping (B31.1)
 - Process Piping (B31.3)
 - Gas Transmission & Distribution Piping
 - Integrity, Management and Maintenance of Gas Pipelines (B31.8S)
 - Operator Qualification Program (B31Q)

Training (continued)

- ASME Training Courses:
 - Failure Prevention, Repair and Life Extension of Piping, Vessels, and Tanks
 - Inspection, Repairs and Alterations of Pressure Vessels
 - Design and Fabrication of Pressure Vessels
 - Section VIII, Division 1
 - Section VIII, Division 2

Training (continued)

- ASME Training Courses:
 - Bolted Joints
 - Practical Welding Technology
 - Predicting Thermal Hydraulic Loads
 - Layout of Piping and Process Equipment
 - Fitness-For-Service and Continued Operation

Conclusions

ASME pressure equipment standards cover many applications in the petroleum sector worldwide. These standards are complimented by conformity assessment programs and training courses.



THANK YOU!

