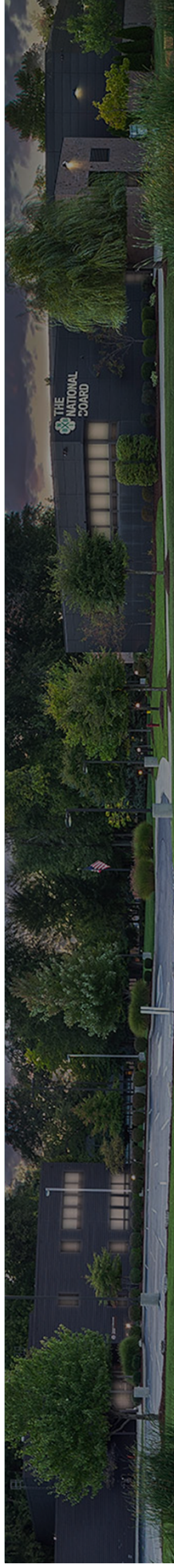
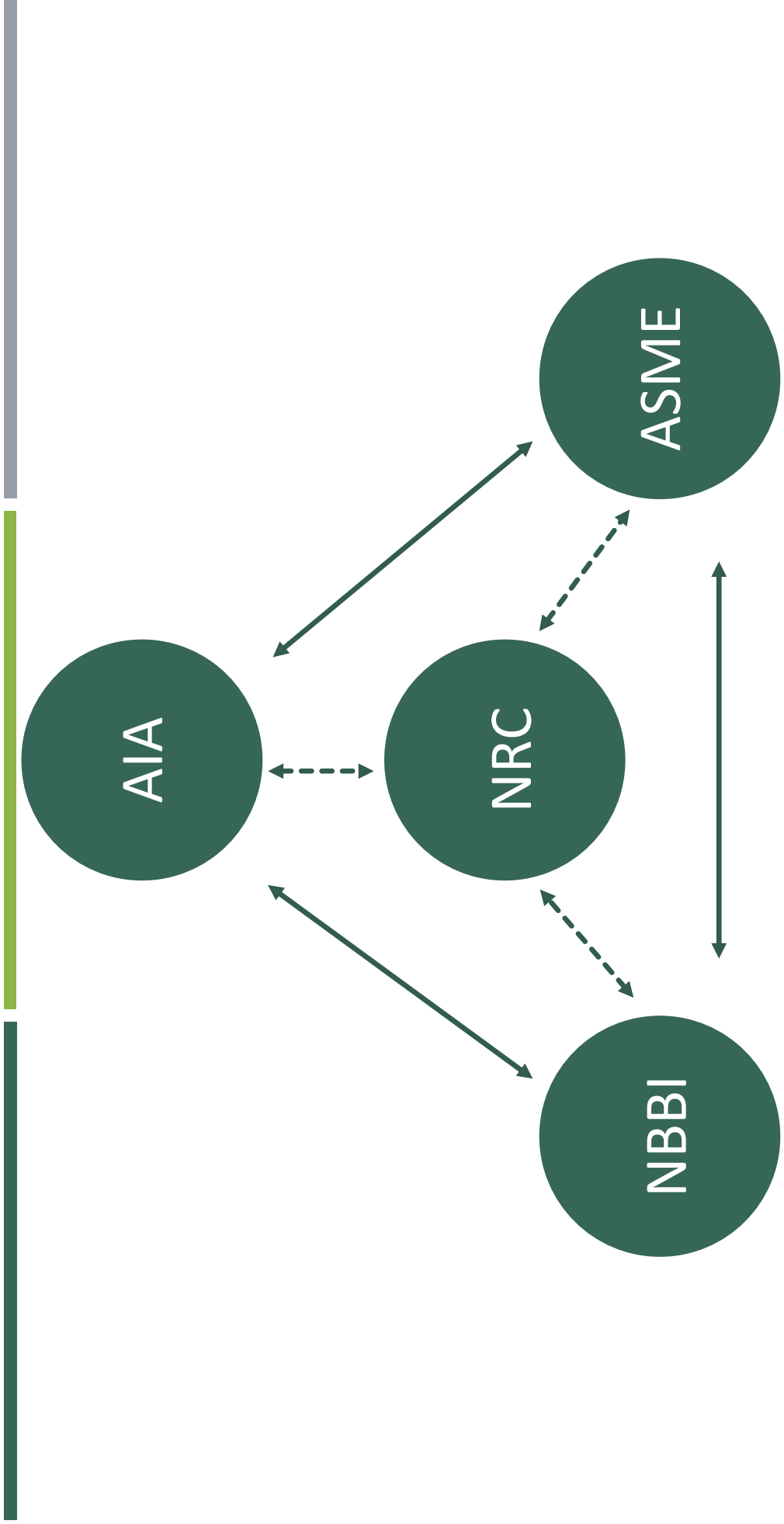




THE NATIONAL BOARD'S ROLE IN CONFORMITY ASSESSMENT

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AUTHORIZED INSPECTOR QUALIFICATIONS





PART 1, NATIONAL BOARD COMMISSIONS AND ENDORSEMENTS

- Qualification Requirements
- Issuance of the Commission
- Renewal of Commissions and Endorsements
- Reinstatement of Commissions and Endorsements
- Change of Employment
- Continuing Education



The National Board Offers Two Separate Inspector Commissions:

- The National Board Inservice Inspector Commission (IS)
- The National Board Authorized Inspector Commission (AI)



AI

The National Board Authorized Inspector Commission is issued to individuals who have been qualified to perform inspections of boilers and pressure vessels, as required by the American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME B&PV Code).



QUALIFICATION REQUIREMENTS FOR THE AUTHORIZED INSPECTOR COMMISSION

A candidate for a National Board Commission shall be in the exclusive employment of a Jurisdictional Authority, an Authorized Inspection Agency.



QUALIFICATION REQUIREMENTS FOR THE AUTHORIZED INSPECTOR COMMISSION

The candidate shall have a minimum of five (5) credit points based upon the combination of education and experience in the pressure equipment industry and meet the requirements listed for the desired commission as described in Table 1.

Education (1 Credit Minimum, 4 Credits Maximum)		Credit Points
Bachelor's Degree or higher in Engineering, Technology, Science, or Mathematics from an accredited institution.		3
Two (2) Year Degree or Certificate in Engineering, Technology, Science, or Mathematics from an accredited institution.		2
Graduation from an accredited technical school in subjects that include, but not limited to, Manufacturing, Building Construction, Construction Technology, Heating Ventilating and Air Conditioning, and Industrial Technology.		2
Completion of an accredited Power Engineering certification program.		2
Completion of an accredited apprenticeship program. For example: boilermaker, steamfitter or pipefitter.		2
Completion of an accredited military or merchant marine training program in the area of marine or stationary boilers, pressure vessels or nuclear reactors.		2
Completion of Certified Welding Inspector (CWI) certification program from the American Welding Society or an equivalent certification.		2
Certification as an American Petroleum Institute API-510 or API-570 Inspector.		2
Completion of a total of eighty (80) hours of classroom technical training in Boiler, Pressure Vessel or Piping Inspection.		
Acceptable technology courses include such subjects as Quality Systems, Engineering, Fabrication Methods, Nondestructive Examination, courses on the knowledge, understanding and general structure of the NBIC or the ASME B&PV Code or National Board courses on inservice inspection (IS Course) or inspection of ASME B&PV Code items (AI Course).		1

TABLE 1

Commission	Title	Requirements
AI	Authorized Inspector	• High school education [twelve (12) years or equivalent educational system] • Meet the requirements of Part 1-1 • Engaged for at least 80 hours of diversified experience as an Authorized Inspector trainee under the direct supervision of an Authorized Inspector/Authorized Inspector Supervisor in accordance with the ASME B&PV Code. A maximum of eight (8) hours, as an Authorized Inspector trainee participating as an observer in a joint review for an ASME Certificate of Authorization, may be credited toward the eighty (80) hour requirement. • Satisfactory completion of the National Board Authorized Inspector Commission Course (AI)

Experience (1 Credit Minimum, 4 Credits Maximum)

One (1) credit point may be assigned for each year of experience associated with the pressure equipment industry in the categories below:

- Engineering or design review.
- Manufacturing, including fabrication methods or processes, in either shop or field.
- Operation of a high pressure boiler steam plant exceeding 50,000 lbs./hr. of total capacity.
- Performance of repairs, alterations, or maintenance of boilers or pressure vessels.
- Quality control systems related to boiler or pressure vessel manufacturing, repair, or alteration in either shop or field.
- Inspection of boilers or pressure vessels either inservice or during construction including either shop or field.
- NDE examiner of boiler and pressure vessels meeting ASNT Level II or III (qualified by examination) or equivalent qualifications.

Note: Credit for concurrent experience in two (2) or more categories will be limited to the experience in one (1) category. For example, consider an individual who has been employed by a repair organization for two (2) years as a quality control manager. The individual has also been qualified, during the same period, as a Level II NDE examiner. The allowable credit for experience is two (2) years only. The two (2) years' experience as a quality control manager and the two (2) years' experience as a Level II NDE examiner are not additive, they are concurrent, and the allowable credit is two (2) years.

The candidate shall take and pass a National Board examination as described in Part 2, *National Board Commission and Endorsement Examinations*.



ENDORSEMENTS

Endorsements are specialized qualifications that are issued to Authorized Inspectors who are qualified to perform duties in accordance with the ASME B&PV Code.



ENDORSEMENTS

B - Authorized Inspector Supervisor – Qualified as an Authorized Inspector and performs supervisory duties for Authorized Inspectors.

N - Authorized Nuclear Inspector – Qualified as an Authorized Inspector and performs inspections required by ASME B&PV Code Section III, Divisions 1, 3, and 5.

NS - Authorized Nuclear Inspector Supervisor – Qualified as both an Authorized Nuclear Inspector and an Authorized Inspector and performs supervisory duties for Authorized Nuclear Inspectors.

I - Authorized Nuclear Inservice Inspector – Qualified as both an Authorized Inspector and an Authorized Nuclear Inspector and performs inspections required by ASME B&PV Code Section XI.



ENDORSEMENTS

NSI - Authorized Nuclear Inservice Inspector Supervisor – Qualified as both an Authorized Nuclear Inservice Inspector and an Authorized Nuclear Inspector Supervisor and performs supervisory duties for Authorized Nuclear Inservice Inspectors.

C - Authorized Nuclear Inspector (Concrete) – Qualified as an Authorized Nuclear Inspector and performs inspections required by ASME B&PV Code Section III, Division 2.

NSC - Authorized Nuclear Inspector Supervisor (Concrete) – Qualified as both an Authorized Nuclear Inspector (Concrete) and an Authorized Nuclear Inspector Supervisor and performs supervisory duties for Authorized Nuclear Inspectors (Concrete).

TABLE 2: QUALIFICATIONS FOR INSPECTOR ENDORSEMENTS

Endorsement Designator	Endorsement Title	Qualifications
N	Authorized Nuclear Inspector	• Holds the Authorized Inspector Commission (AI) and subsequently shall have been engaged for at least one (1) year in ASME B&PV Code related work or shall have been engaged for at least one (1) year as an Inspector Trainee of nuclear items under the direct supervision of an Authorized Nuclear Inspector, or a combination of the two totaling one (1) year or more. • Satisfactory completion of the National Board Authorized Nuclear Inspector Course (N).
I	Authorized Nuclear Inservice Inspector	• Holds the N Endorsement and shall have been engaged for at least one (1) year in ASME B&PV Code related work, such as inspections, under the provisions of the ASME B&PV Code or shall have been engaged for at least one (1) year as an Inspector Trainee of nuclear items under direct supervision of an Authorized Nuclear Inservice Inspector, or a combination of the two totaling one (1) year or more. • Satisfactory completion of the National Board Authorized Nuclear Inservice Inspector Course (I).
C	Authorized Nuclear Inspector (Concrete)	• Holds the N Endorsement. • Engaged for at least one (1) year in design, construction, or inspection of concrete structures similar to those used in nuclear facilities or satisfactory completion of the National Board's accelerated course in the fundamentals of concrete construction and inspection. • Satisfactory completion of the National Board Authorized Nuclear Inspector (Concrete) Course (C).

TABLE 3: QUALIFICATIONS FOR INSPECTOR SUPERVISOR ENDORSEMENTS

Endorsement Designator	Endorsement Title	Qualifications
B	Authorized Inspector Supervisor	- Holds the Authorized Inspector Commission (AI) and subsequently either shall have been engaged for at least two (2) years in ASME B&PV Code related work, such as inspection, under the provisions of the ASME B&PV Code, or shall have been engaged for at least two (2) years in the administration of shop inspection services under the ASME B&PV Code. - Satisfactory completion of the National Board Inspector Supervisor Course (B/O).
NS	Authorized Nuclear Inspector Supervisor	- Holds the N Endorsement and subsequently either shall have been engaged for at least two (2) years of diversified inspection experience in the construction of ASME B&PV Code Section I, Section III, or Section VIII pressure equipment, or shall have been engaged for at least two (2) years in the administration of shop inspection services under the referenced ASME B&PV Code sections. - Satisfactory completion of the National Board Authorized Nuclear Inspector Supervisor Course (NS).
NSI	Authorized Nuclear Inservice Inspector Supervisor	- Holds the NS Endorsement. - Holds the I Endorsement for the Authorized Nuclear Inservice Inspector (ANII) and subsequently shall have been engaged for at least one (1) year as an ANII and have at least one (1) year of experience in nondestructive examination (NDE) methods. Such minimum of one (1) year of engagement as an ANII and one (1) year of experience in NDE methods may be during the same year.



PART 4, *AUTHORIZED INSPECTION (ASME)*

- Duties of the Authorized Inspector Supervisor
- Duties of the Authorized Inspector



Part 6, Inspector Diary, Monitoring, and Use of Commissions



PART 7, *CODE OF ETHICS*

- Conflict of Interest
- Good Faith Actions
- Public Perception
- Independence, Impartiality, and Integrity

PART 8, COMPLAINTS AND DUE PROCESS

The following matters are subject to National Board procedural enforcement:

- **Falsification of an Application**

A National Board Commission or Endorsement may be revoked by the Executive Director for falsification of any statement contained in any application. The person may request reconsideration by the Executive Director and may appeal to the Board of Trustees.

- **Neglect of Duties or Falsification of a Report**

When an evaluation reveals that a National Board Commissioned Inspector has been negligent in his or her duties or has made false statements on forms used for documentation of duties, a Peer Review Board may be convened. National Board Policy BOT 5.1 describes the process and copies are available from the National Board.

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