



**Rules for
National Board
Inservice and New Construction
Commissioned Inspectors**

The National Board of Boiler and Pressure Vessel Inspectors

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Part 1 – General Requirements (RG)

RG-1 Introduction

RG-1.1 Scope

This document defines requirements for the uniform qualification, examination, issuance, and renewal of National Board Commissions and Endorsements. The National Board recognizes two important areas of inspections and offers two separate commissions: the National Board Inservice Commission and the National Board New Construction Commission.

This document is divided into three (3) parts, identified as:

Part 1 – General Requirements – Provides requirements common to both the Inservice and New Construction Commissions,

Part 2 – Inservice Commission – Provides specific requirements for the Inservice Commission, and,

Part 3 – New Construction Commission – Provides specific requirements for the New Construction Commission.

A National Board Inservice Commission qualifies an individual to perform inspections related to inservice and repairs and alterations to boilers and pressure vessels. An individual holding an Inservice Commission may obtain a New Construction Commission by meeting the requirements of Part 3.

A National Board New Construction Commission qualifies an individual to perform inspections related to boilers and pressure vessels being constructed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME BPV Code). An individual holding a New Construction Commission may perform inspections on repairs and alterations by obtaining an A_R endorsement. Alternatively, an individual may obtain an Inservice Commission by meeting the requirements of Part 2.

RG-1.2 Revisions

The National Board Committee on Qualifications for Inspection is responsible for maintaining this document. Revisions to this document require approval by the Board of Trustees.

RG-1.3 Jurisdictional Requirements

Many jurisdictions require individuals having a National Board Commission to meet additional requirements prior to performing inspection activities in that jurisdiction. Because requirements may vary among jurisdictions, Commissioned Inspectors and their employers must understand and abide by the specific requirements of the jurisdiction in which they practice.

RG-2 National Board Commissioning Process

RG-2.1 Conflict of Interest

The inspector shall perform work without conflicts of interest. Conflicts of interest are activities which, directly or indirectly, are detrimental to the interests of the inspector's employer or the National Board. The purpose of avoiding conflict is to preserve the integrity and independence of the inspection process.

* RG-2.2 Eligibility Requirements

An applicant for a National Board Commission shall meet the following requirements:

RG-2.2.1 *Employment*

An applicant for a National Board Commission shall be in the regular employment of, and exclusively engaged by:

- an Authorized Inspection Agency as defined in the Glossary of Terms; or
- an Owner-User Inspection Organization; or
- a Non-member Enforcement Agency ; or
- a Federal Inspection Agency; or
- the National Board.

RG-2.2.2 *Qualifications*

An applicant shall meet the qualification requirements described in RG-3 of this document.

RG-2.2.3 *National Board Examination*

An applicant shall have taken and passed a National Board Examination, as defined in this document.

RG-2.2.4 *Time Constraint*

- The applicant shall apply for a commission no later than two (2) years after passing the National Board examination.
- A person whose commission has not been issued within the two (2) year period shall be required to retake and pass the National Board Examination.

RG-2.2.5 National Board Pressure Equipment Inspector

A person holding a National Board commission is not eligible to simultaneously hold a National Board Pressure Equipment Inspector certification.

RG-2.3 Issuance of Commission

When the applicant has met the eligibility requirements of RG-2.2 and, at the request of the applicant's employer, a National Board Commission Card and certificate will be issued. The application for a commission shall be on forms obtained from the National Board. An inspector may possess only one valid commission card listing one employer.

* RG-2.4 Continuation of Commission

RG-2.4.1 *Renewal*

- Each commission expires annually on December 31.
- The requirement for renewal is as follows:
 - The inspector must maintain the employment eligibility requirements of RG-2.2.1;
- The request for renewal shall be made by the inspector's employer.
The request shall certify the inspector has maintained inspection proficiency by performing or supervising inspection related activities and the individual has met the continuing education requirements of RG-2.4.3.

RG-2.4.2 *Change of Employment*

A request for a commission card shall be made by the inspector's current employer on forms obtained from the National Board.

RG-2.4.3 *Continuing Education*

Each National Board Commissioned Inspector, at least once every two (2) years, shall complete a National Board on-line training course appropriate for the scope of his/her commission. Alternatively, the training course may be developed by the inspector's employer and accepted by the National Board in accordance with NB-426. See Appendix 2 and Appendix 3.

RG-2.4.4 *Reinstatement*

- A person whose commission has not been renewed for two (2) years or less may, on proper application from the employer, have the commission reinstated. The employer shall provide verification of continuing education as described in RG-2.4.3.
- A person whose commission has not been renewed for more than two (2) years shall be required to retake and pass the National Board Examination.
- A person whose commission has not been renewed for more than two (2) years may have their commission reinstated without retest, provided:
 - The applicant completes the continuing education course(s) for each commission within two (2) years prior to the date of application for reinstatement, and
 - The applicant has been actively employed by an organization that is directly involved in the boiler and pressure vessel industry. The applicant shall submit a work history showing verifiable qualifying work experience. Examples of qualifying work experience include design, construction, manufacturing, repair, quality control, instructing, auditing, nondestructive examination, operation or inspection of boilers, pressure vessels or piping.
 - The application for reinstatement shall be on Form NB-216-2, obtained from the National Board. Each *Application for Reinstatement* shall be evaluated by the National Board staff and approved by the Executive Director.

RG-2.5 Endorsements

An applicant for a commission endorsement shall be a National Board Commissioned Inspector meeting the endorsement eligibility requirements described in this document.

RG-2.6 Due Process

RG-2.6.1 *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.

RG-2.6.2 *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.

RG-2.6.3 *Executive Director Action*

If any individual feels aggrieved by an Executive Director decision, the individual has the right to appeal to the Board of Trustees, through the Executive Director. Such appeal shall be within 30 days of the decision date. Actions taken by the Board of Trustees are final.

RG-2.7 Fee

A fee established by the Board of Trustees shall be paid for each commission and endorsement issued, renewed, or reinstated.

RG-3 Qualification

To qualify as a National Board Commissioned Inspector, an applicant shall have, as a minimum, a high school education (12 years or equivalent educational system) and shall meet one of the criteria as described in RG-3.1.

RG-3.1 Qualification Criteria:

An applicant shall have a minimum of 5 credit points accumulated under RG-3.2 Education and RG-3.3 Experience.

Alternatively, an applicant for the National Board Inservice Commission may complete the National Board Inservice Inspector Training Program described in National Board publication NB-380.

RG-3.2 Education (1 credit minimum, 4 credits maximum)

<u>Category</u>	<u>Credit Points</u>
RG-3.2.1 <i>Technical Training in Boiler and Pressure Vessel Inspection (1 point maximum)</i>	1

Examples include the following:

- *Technology Courses:* Completion of a course in at least one (1) of the following (or related) subjects: quality systems, engineering, fabrication methods, nondestructive examination, or inspection. The course(s) may be web based, a correspondence course or conducted in a classroom.
- *Code Courses:* Completion of a course on knowledge, understanding, and general structure of the *National Board Inspection Code* (NBIC) Part 1, 2, or 3 or other codes or related standards, such as the ASME Code or other international codes of construction.
- *National Board Conducted Courses:* Completion of a National Board conducted course.

RG-3.2.2 Technical Curriculum (2 points maximum) 2

Examples include the following:

- Graduation from an accredited technical school;

- Possession of Power Engineering Certificate;
- Possession of an Accredited Trade Certificate in such skills as a: Boilermaker, Boiler Mechanic, Steamfitter, Machinist, Millwright or Welder;
- Completion of a military or merchant marine training course in the area of marine or stationary boilers or pressure vessels; and
- Possession of a Certified Welding Inspector (CWI) certificate from the American Welding Society or an equivalent certification.

RG-3.2.3 *College/University (3 points maximum)* 3

Examples include the following:

- Associate's degree in science, mathematics or engineering.
- Bachelor's degree in science or mathematics.

RG-3.2.4 *College/University (4 points maximum)* 4

Bachelor's degree in engineering.

RG-3.3 Experience (1 credit minimum, 4 credits maximum)

One (1) credit point may be assigned for each full year's technical experience associated with boilers and pressure vessels in the categories below.

- Engineering or design review;
- Manufacturing, including fabrication methods or processes, in either shop or field;
- Responsibility for the operation of boiler(s) exceeding 50,000 lbs. of steam per hour total capacity;
- Responsibility for the performance of repairs, alterations, or maintenance of boilers or pressure vessels.
- Involvement with quality control systems related to boiler or pressure vessel manufacturing, repair or alteration in either shop or field.
- Responsibility for inspection of boilers or pressure vessels either inservice or during construction including either shop or field.
- Qualifications as an NDE examiner of boiler and pressure vessels meeting ASNT Level II or III (qualified by examination) or equivalent qualifications.

Credit for concurrent experience in two or more categories will be limited to the experience in one category. For example, consider an individual who has been employed by a repair organization for the past two years as

a quality control manager. The individual is also qualified as a Level II NDE examiner.

The allowable credit for experience is two (2) years only. The two years experience as a quality control manager and the two years experience as a Level II NDE examiner are not additive, they are concurrent and the allowable credit is two years.

RG-4 National Board Commission Endorsements

RG-4.1 General

An endorsement is issued to the holder of a National Board Commission to indicate areas of additional qualification such as in specialized or supervisory activities. Qualifications for endorsements are shown in Appendix 1. ASME Standard QAI-1, Qualifications for Authorized Inspection, provides additional requirements for authorized inspectors and inspector supervisors. See also paragraph RN-2.

* RG-4.2 Eligibility Requirements

RG-4.2.1 *National Board Commission*

An applicant for an endorsement shall hold either a National Board Inservice Commission or National Board New Construction Commission.

RG-4.2.2 *Qualification*

An applicant for an endorsement shall meet the requirements described in Appendix 1.

RG-4.2.3 *Examination*

An applicant for an endorsement shall take an examination for each requested endorsement. A score of 70 percent or more is required to pass. An applicant not passing the examination, may be eligible to take another examination, as described in Paragraph RI-1.3 and RN-1.3.

RG-4.2.4 *Time Constraint*

- The applicant shall apply for an endorsement no later than two (2) years after passing the examination.
- A person whose endorsement has not been issued within the two (2) year period shall be required to retake and pass the appropriate endorsement examination.

RG-4.3 Issuance of Endorsement

An endorsement will be issued when:

- an applicant's employer has requested the endorsement; and
- the applicant has met the eligibility requirements in RG-4.2.

The endorsement will be noted on the National Board Commission Card.

* RG-4.4 Continuation of Endorsement

- The endorsement expires with the commission year concurrent with the National Board commission. Requests for renewal shall be made by the inspector's employer.
- At least once every two (2) years, the employer shall certify that the inspector has maintained proficiency by one or more of the following methods:
 - Performing inspection activities or supervising activities within the scope of any endorsement;
 - Attendance at meetings or panel discussions relevant to the scope of the endorsement(s).
- At least once every two (2) years, the employer shall certify the inspector has completed a National Board on-line training course appropriate for the scope of his/her endorsement(s). Alternatively, the training course may be developed by the inspector's employer and accepted by the National Board in accordance with NB-426. See Appendix 2 and Appendix 3.

* RG-4.5 Reinstatement of Endorsements

- A person whose endorsement has not been renewed for two (2) years or less may, on proper application from the employer, have the endorsement reinstated.
- A person whose endorsement has not been renewed for more than two (2) years shall be required to retake and pass the appropriate endorsement examination.
- A person whose endorsement(s) has not been renewed for more than two (2) years may have their endorsement(s) reinstated without retest, provided:

- The applicant completes the continuing education course(s) for each endorsement within two (2) years prior to the date of application for reinstatement, and
- The applicant has been actively employed by an organization that is directly involved in the boiler and pressure vessel industry. The applicant shall submit a work history showing verifiable qualifying work experience. Examples of qualifying work experience include design, construction, manufacturing, repair, quality control, instructing, auditing, nondestructive examination, operation or inspection of boilers pressure vessels or piping. Acceptable qualifying work experience is required to validate the person's involvement in the boiler and pressure vessel industry and is not specific to any endorsement.
- The application for reinstatement shall be on Form NB-216-2, obtained from the National Board. Each *Application for Reinstatement* shall be evaluated by the National Board staff and approved by the Executive Director.

RG-5 Inspector's Diary

Each Commissioned Inspector involved with new construction or R stamp activities must maintain a diary of activities. The diary must be bound (not loose-leaf), or alternatively, the inspector may use an electronic diary, controlled by the inspector's employer. The purpose of the diary is to provide a record of the Inspector's activity and to support continuity of inspections. The inspector's diary is the property of the inspector's employer and must be available at the location of the inspection. For field sites, the diary must be available for the duration of the alteration or repair project. The diary must be maintained for a minimum of five (5) years. National Board Commission numbers shall be entered into the inspector's diary.

Entries in the inspector's diaries must:

- Provide a clear indication of the nature and extent of the inspector's activities;
- Be completed daily or at each inspection visit by the inspector;
- Include the inspector's signature or initials, the date, and the inspector's National Board commission number;
- Be available for reviews and investigations;

- Electronic diaries must also:
 - Be secured in such a way as to prevent revisions, additions, or deletions to data which has been previously logged in the diary;
 - Provide a means for other authorized inspectors, within the Authorized Inspection Agency, to review diary entries, as required;
 - Include a provision for signatures by a PIN or other secure means.

Part 2 – Inservice Commission (RI)

RI-1 National Board Inservice Commission Examinations

There are no prerequisites for an applicant to take the National Board Inservice Commission examination. Eligibility requirements for the National Board Inservice Commission are described in RG-2.2.

RI-1.1 Examination Sites

The National Board examination may be administered:

- at any On-Demand location;
 - May be scheduled at any time
- in National Board member jurisdictions;
 - Available only on the first Wednesday in March, June, September or December each year
- following the National Board Inservice Commission (IC) Course
- at other locations approved by the Executive Director.

RI-1.2 Passing the Examination

A score of 70 percent or more is required to pass. Criteria for passing the examination will be described in the Candidate Handbook for the Inservice Commission Examination, available on the National Board's website.

RI-1.3 Reexamination

An applicant not passing the examination may be eligible to take another examination. An applicant who fails the examination three (3) times in a twelve (12) month period, shall not be permitted to take the examination for at least one (1) year following the last attempt.

RI-2 Inservice Commissioned Inspectors - Duties

A National Board Inservice Commissioned Inspector may perform inservice inspections and inspections associated with authorization, in-process and acceptance of repairs and alterations as defined in the *National Board Inspection Code (NBIC)*.

Duties include, but are not limited to:

RI-2.1 Inservice Inspections: The inspector should:

Possess a thorough knowledge of jurisdictional regulations and inspection requirements where the item is installed.

Perform external and internal inspections and witness any required pressure tests. Part 2 of the NBIC should be used to guide these activities as a minimum; however, jurisdictional requirements will always take precedence.

Report inspection results, including any nonconforming conditions, in the manner prescribed by the applicable jurisdiction.

Verify the stamping or nameplate is legible and represents the item described on the inspection documentation. If stamping or nameplate is lost or illegible, instruct the owner or owner's representative to have the stamped data replaced in accordance with jurisdictional requirements. If stamping or nameplate does not represent the item described on the inspection documentation, report that information in the inspection report filed with the jurisdiction.

RI-2.2 Repairs and Alterations (NBIC): The Inspector should:

Verify the "R" Certificate Holder has a valid National Board "R" Certificate of Authorization and the activity is permitted under the scope of the certificate.

Verify the "R" Certificate Holder has the current NBIC and addenda.

Monitor the quality control system and verify the system is being implemented to the requirements of the NBIC.

Verify all material complies with the NBIC.

Verify all welding procedure specifications, procedure qualification records, and welder and welding operator qualification records conform to the NBIC.

Verify heat treatments as required by the NBIC have been performed and properly documented.

Verify nondestructive examinations and tests as required by the NBIC have been performed and properly documented.

Witness pressure tests as required by the NBIC.

Verify information in the NBIC report forms is correct and the responsible representative of the “R” Certificate Holder has signed it.

Verify the stamping or nameplate is correct and, where applicable, the nameplate has been properly attached.

RI-2.3 NBIC Report Forms

The Inspector’s National Board Commission number shall be recorded on Forms R-1, R-2, R-3, R-4, NR-1, NVR-1, NB-5, NB-6, NB-7 and NB-136, and may be recorded on other inspection related forms (including electronic inspection reporting) as required by or accepted by National Board member jurisdictions.

RI-2.4 Supervisor/Technical Manager

The inspector’s employer shall employ one or more supervisor(s)/ technical manager(s) however named, who have overall responsibility for carrying out inspection activities and monitoring performance of the inspector. The supervisor/technical manager shall hold a valid National Board Inservice Commission.

Specific duties include:

- Assisting in maintaining competency of the inspector at an acceptable level through methods such as discussions of work-related topics; unique problems and their solutions; informal question-and-answer discussion sessions and whatever other means deemed beneficial.
- Maintaining a record of the inspector’s assignments.
- Implementing necessary corrective action to ensure compliance with the jurisdictional or NBIC requirements.

Part 3 – New Construction Commission (RN)

RN-1 National Board New Construction Commission Examinations

The National Board New Construction Commission and the “A” Endorsement must be issued concurrently. An applicant for a National Board New Construction Commission and “A” endorsement must:

- attend the National Board “A” course
- pass the examination following the “A” course. This examination also serves as the “A” endorsement examination.
- meet the eligibility requirements of RG-2, including:
 - employment by an AIA, as defined in the Glossary
 - meeting the qualification requirements of RG-3, and
 - meeting the time constraint requirements of RG-2.2.4.
- meet the “A” endorsement requirement for eighty (80) hours on the job training in ASME BPV Code shop fabrication and inspection. Reference Appendix 1.

RN-1.1 Examinations

The National Board New Construction Commission examination will be administered following the “A” course.

Re-examinations may be administered:

- at any On-Demand location
 - may be scheduled at any time
- in National Board member jurisdictions
 - administered only on the first Wednesday in March, June, September or December each year
- following the National Board “A” course
- other locations approved by the Executive Director.

RN-1.2 Passing the Examination

A score of 70 percent or more is required to pass. Criteria for passing the examination will be described in the Candidate Handbook for the New Construction Commission/Authorized Inspector Examination, available on the National Board's website.

RN-1.3 Reexamination

An applicant not passing the examination may be eligible to take another examination. An applicant who fails the examination three (3) times in a twelve (12) month period, shall not be permitted to take the examination for at least one (1) year following the last attempt.

RN-2 New Construction Commissioned Inspectors - Duties

ASME Standard QAI-1, Qualifications for Authorized Inspection and various sections of the ASME BPV Code identify required duties for authorized inspectors and authorized inspector supervisors. Individuals designated as authorized inspectors and authorized inspector supervisors have the overall responsibility for carrying out inspection activities in accordance with the referenced codes and standards as well as this document.

In this context, for ease of reference, the term authorized inspector includes individuals holding the following endorsements and designated as such by their employer:

- A or AR - Authorized Inspector
- N - Authorized Nuclear Inspector
- I - Authorized Nuclear Inservice Inspector
- C - Authorized Nuclear Inspector (Concrete).

In this context, for ease of reference, the term authorized inspector supervisor includes individuals holding the following endorsements and designated as such by their employer:

- B - Authorized Inspector Supervisor
- NS - Authorized Nuclear Inspector Supervisor;
- NS_I - Authorized Nuclear Inservice Inspector Supervisor;
- NS_C - Authorized Nuclear Inspector Supervisor (Concrete).

Each authorized inspector supervisor must hold the same endorsement as the authorized inspector he/she supervises. See Appendix 1.

Each section of the ASME BPV Code has specific requirements for inspections. Listed below are supplemental requirements for the authorized inspector supervisor and the authorized inspector. The

requirements in the ASME BPV Code shall govern in case of any direct conflict.

RN-2.1 Authorized Inspector Supervisor

Assist in maintaining the competency of the authorized inspector at an acceptable level through methods such as discussions of work related topics; unique problems and their solutions; informal question-and-answer discussion sessions, and whatever other means deemed beneficial.

Maintain a record of those authorized inspectors assigned and a description of their assignments.

Audit and document performance of each authorized inspector assigned to a shop or field site at least once each year at approximately twelve month intervals or when requested by the authorized inspector.

Take necessary corrective action to ensure compliance with code requirements at the shops and sites which have been assigned to the supervisor.

Record in the inspector's diary dates of visits to shop and field locations when related to code supervisory duties.

RN-2.2 Authorized Inspector

Verify that the manufacturing organization has a valid ASME Certificate of Authorization and valid National Board Certificate of Authorization to register with the National Board.

Review design drawings and the traveler or process sheet in order to understand the scope of the intended work.

Review the method and extent of material defect repairs, and when found acceptable, allow initiation of such repairs.

Verify weld joint preparation will allow full penetration when full penetration welds are specified or required.

Verify the stamping, including the National Board stamping, is correct and the nameplate (if used) is properly attached.

Verify the manufacturing organization's Representative has signed the Manufacturer's Data Report and that it is correct before applying the date, his/her signature, National Board Commission number, and endorsement.

RN-2.3 Manufacturer's Data Reports

The Authorized Inspector's National Board commission number and endorsement(s) must be recorded.

QUALIFICATIONS FOR INSPECTOR ENDORSEMENTS

A National Board Commission is Required for all Endorsements

Endorsement Designator	Endorsement Title	Qualifications
A	Authorized Inspector	<ul style="list-style-type: none"> <input type="checkbox"/> Eighty (80) hours on the job training in ASME BPVC shop fabrication and inspection; <input type="checkbox"/> Satisfactory completion of the National Board “A” course.
A _R	Authorized Inspector	<ul style="list-style-type: none"> <input type="checkbox"/> Holds the “A” endorsement; <input type="checkbox"/> Satisfactory completion of National Board’s NBIC Part 3 course.
N	Authorized Nuclear Inspector	<ul style="list-style-type: none"> <input type="checkbox"/> Holds the “A” endorsement; <input type="checkbox"/> Minimum of one (1) year of diversified shop inspection experience in the construction of Section I or Section VIII pressure vessels, or one (1) year of diversified experience as an Inspector trainee of nuclear items under the direct supervision of an Authorized Nuclear Inspector and; <input type="checkbox"/> Satisfactory completion of the National Board Nuclear Inspection course.
I	Authorized Nuclear Inservice Inspector	<ul style="list-style-type: none"> <input type="checkbox"/> Holds the “N” endorsement; <input type="checkbox"/> A minimum of one (1) year of diversified Code inspection experience of Section I; Section III, Division 1; and/or Section VIII pressure vessels or one (1) year of diversified experience as an Inspector trainee of nuclear items under the direct supervision of an Authorized Nuclear Inservice Inspector; <input type="checkbox"/> Satisfactory completion of the National Board Nuclear Inservice Inspection course.
C	Authorized Nuclear Inspector (Concrete)	<ul style="list-style-type: none"> <input type="checkbox"/> Holds the “N” endorsement; <input type="checkbox"/> A minimum of two (2) years concrete experience; or <input type="checkbox"/> Satisfactory completion of the National Board concrete training course (40 hours).

QUALIFICATIONS FOR INSPECTOR SUPERVISOR ENDORSEMENTS

A National Board Commission is Required for all Endorsements

B	Authorized Inspector Supervisor	<ul style="list-style-type: none"> ❑ Holds the “A” endorsement, and ❑ A minimum of two (2) years’ experience as an Authorized Inspector, and ❑ Satisfactory completion of the National Board Authorized Inspector Supervisor course.
O	Owner-User Inspector Supervisor	<ul style="list-style-type: none"> ❑ A minimum of two (2) years’ experience as a commissioned inspector, and ❑ Satisfactory completion of the National Board Authorized Inspector Supervisor course.
NS	Authorized Nuclear Inspector Supervisor	<ul style="list-style-type: none"> ❑ Holds the “N” nuclear endorsement and one of the following: <ul style="list-style-type: none"> - is a college graduate with five (5) years’ experience, two (2) of which are associated with nuclear power, or - is a high school graduate with ten (10) years’ experience, five (5) of which are associated with QA and testing or inspection, two (2) of which are associated with nuclear power, or - has five (5) years’ experience in ASME BPVC Section I, III, or VIII shop fabrication and inspection. ❑ Satisfactory completion of the National Board Authorized Nuclear Supervisor course.
NS _i	Authorized Nuclear Inservice Inspector Supervisor	<ul style="list-style-type: none"> ❑ Holds the “I”, Authorized Nuclear Inservice Inspector endorsement, and ❑ Holds the “NS”, Authorized Nuclear Inspector Supervisor endorsement ❑ 1. Has a minimum of one (1) year experience as an Authorized Nuclear Inservice Inspector, and ❑ 2. Has a minimum of one (1) year experience in nondestructive examination methods. ❑ 3. The experience required in 1 and 2 may be during the same year.
NS _c	Authorized Nuclear Inspector Supervisor (Concrete)	<ul style="list-style-type: none"> ❑ Holds the “C” Authorized Nuclear Inspector (Concrete) endorsement, and ❑ Holds the “NS” Authorized Nuclear Inspector Supervisor endorsement, and ❑ Is a graduate of a four (4) year accredited engineering or science college or university, plus five (5) years of experience in quality assurance, including testing or inspection (or both) of equivalent fabrication or construction activities. At least two (2) years of this experience should be associated with the construction or inspection of concrete structures similar to those used in nuclear facilities, or ❑ Is a high school graduate, with ten (10) years of experience in general quality assurance or engineering, or equivalent fabrication or construction activities. Five (5) years of this experience are required in quality assurance, including testing or inspection (or both) of equivalent construction and installation activities. At least two (2) years of this experience shall be associated with the construction or inspection of concrete structures equivalent in complexity to those used in nuclear facilities.

CONTINUING EDUCATION REQUIREMENTS

Description of Commission/ Endorsements	Continuing Education Courses
If you hold one of these commissions or endorsements...	The required Continuing Education Course is...
Inservice Commission or O Endorsement	Inservice Inspection Series.
New Construction Commission A, or B Endorsement	New Construction Inspection Series: All ASME BPV Code Sections (Excluding Sections III and XI).
Ar Endorsement	New Construction Inspection Series: All ASME BPV Code Sections (Excluding Sections III and XI) and NBIC Part 3, training course
N or NS Endorsements	Nuclear Series: ASME BPV Section III Division 1
C or NSc Endorsement	Nuclear Concrete Series: ASME BPV Section III Division 2
I or NSi Endorsements	Nuclear Inservice Series: ASME BPV Section XI

Note 1: Continuing education courses are required to ensure inspectors maintain their knowledge base and stay up-to-date on new developments.

Note 2: The chart above shows how the scope of training must track the type of endorsement. As a result, some inspectors may be required to take more than one continuing education course within the two (2) year period. Reference RG-2.4.3 and RG-4.4.

Note 3: Each continuing education course must include the provisions of the Body of Knowledge prepared for each commission/endorsement. The Body of Knowledge is available on the National Board’s website.

IMPLEMENTATION OF CONTINUING EDUCATION REQUIREMENTS

Renewals

Beginning January 1, 2013, continuing education obtained through National Board (NB) on-line training or other accepted training, will be required for each commission (inservice/new construction) and each endorsement. The on-line courses have been developed to be appropriate for the scope of each commission/endorsement. Please refer to Paragraphs RG-2 and RG-4 for additional requirements.

Appropriate continuing education courses are required every two years, coinciding with the inspector's commission/endorsement renewal. The continuing education course(s) must be completed within the two-year period immediately preceding the renewal. For example, for a commission/endorsement to be renewed December 31, 2014, the continuing education course(s) must be completed between January 1, 2013 and December 31, 2014.

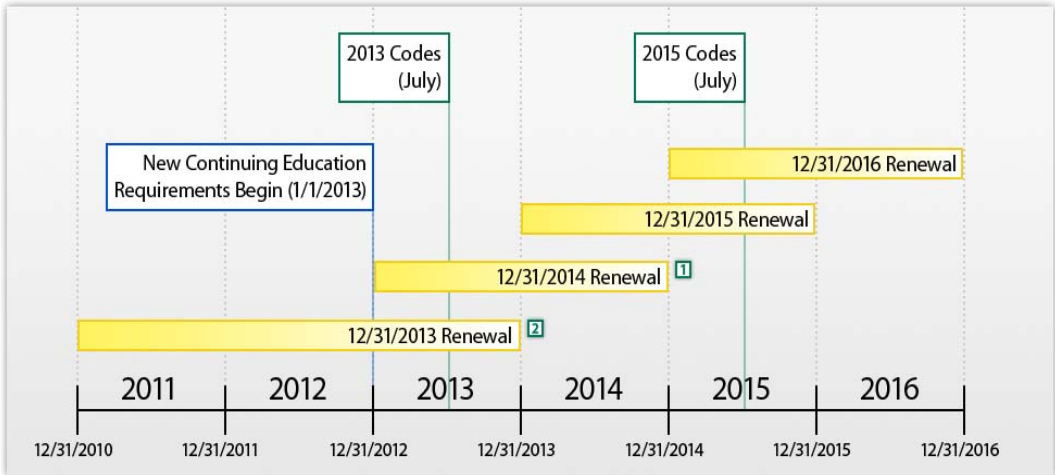
For commissions/endorsements to be renewed December 31, 2013, the continuing education requirements will be based upon the three (3) year cycle as described in paragraphs RG-2.4.3 and RG-4.4.1.

- Individuals who complete the NB on-line training or other accepted training, during 2013 will receive credit for such training and it will be accepted, along with training completed in 2014, in the December 31, 2014 renewal.

Continuing Education Course Requirements

The continuing education training may be in the form of on-line courses available from the National Board or other courses accepted by the National Board that meet the requirements of NB-426, "Criteria for Acceptance of Continuing Education Courses.

Continuing Education Requirements for Commissions and Endorsements



Beginning January 1, 2013, continuing education must be completed appropriate for the scope of each endorsement.

- Represents the period in which continuing education must be accomplished to satisfy renewal requirements.
- 1 For commissions/endorsements to be renewed December 31, 2014, the continuing education course(s) must be completed between January 1, 2013 and December 31, 2014.
- 2 For commissions/endorsements to be renewed December 31, 2013, the continuing education requirements must be completed between January 1, 2011 and December 31, 2013.

GLOSSARY

Authorized Inspection Agency

New Construction: An Authorized Inspection Agency meeting the requirements of NB-360, Criteria for Acceptance of Authorized Inspection Agencies for New Construction.

Inservice: An Authorized Inspection Agency is either:

- (a) a jurisdictional authority as defined in the National Board Constitution; or
- (b) an entity accredited in accordance with NB-369, Qualifications and Duties for Authorized Inspection Agencies (AIAs) Performing Inservice Inspection Activities and Qualifications for Inspectors of Boilers and Pressure Vessels.

Authorized Inspector – An individual holding a valid National Board New Construction commission with the appropriate endorsement and designated as such by an Authorized Inspection Agency.

Credit Points – Points earned to qualify as a prospective applicant for a National Board Commissioned Inspector.

Federal Inspection Agency – An entity accredited in accordance with NB-390, Qualifications and Duties for Federal Inspection Agencies (FIAs) Performing Inservice Inspection Activities.

Inspector – A National Board Inservice Commissioned Inspector or a National Board Commissioned Owner-User Inspector.

Inspector Supervisor – An individual with a National Board commission, a “B,” “O,” or “NS” endorsement, and so designated by the inspection agency.

National Board Commission – A certificate and renewable commission card issued by the National Board to an individual who has satisfied the requirements of these rules.

National Board Inservice Commissioned Inspector – An individual who holds a valid National Board Inservice Commission and who is regularly employed as an inspector by an organization as defined in Paragraph RG-2.2.1. A National Board Inservice Commissioned Inspector may perform inservice inspections and inspections associated with authorization, in process and acceptance of repairs and alterations as defined in the NBIC.

National Board New Construction Commissioned Inspector - An individual holding a valid National Board New Construction commission with the appropriate endorsement and designated as such by an Authorized Inspection Agency. Also referred to as an Authorized Inspector.

National Board Commissioned Inspector Employed by an Owner-User – An individual who holds a valid National Board Inservice Commission and is regularly employed as an inspector by an Owner-User Inspection Organization.

Non-Member Enforcement Agency – A jurisdictional entity that does not qualify for National Board membership, that has an individual employed as the Chief Inspector, or other official charged with enforcement of laws pertaining to inspection of boilers, pressure vessels or other pressure retaining items.

On-Demand Provider – A provider of computer based examinations in partnership with the National Board. The provider will have its own security and onsite screening practices to ensure the integrity of the examination. The On-Demand provider’s security and screening practices are reviewed and accepted by the Executive Director.

Owner-User Inspection Organization – An owner-user of pressure retaining items maintaining an established inspection program, whose organizations and inspection procedures meet the requirements of NB-371, Accreditation of Owner-User Inspection Organization (OUIO) and is acceptable to the jurisdictional authority wherein the owner-user is located.

* **Owner-User Inspector Supervisor** – The Supervisor is selected and designated as such by his employer. The Supervisor shall have passed an examination developed and administered by the National Board and received an “O” endorsement from the National Board. A candidate for designation as a Supervisor shall have qualified as an Inspector and subsequently been engaged for at least two years in inservice inspection related work.

“R” Certificate Holder – An organization having an “R” Certificate of Authorization issued by the National Board.

Regular Employment – The relationship between an inspector who holds a National Board Commission and an Authorized Inspection Agency, Owner-User Inspection Organization or Federal Inspection Agency. The following criteria shall be met and documented:

- (a) the Authorized Inspection Agency, Owner-User Inspection Organization, or Federal Inspection Agency shall assume the responsibility for the individual's inspection function.
- (b) The Authorized Inspection Agency, Owner-User Inspection Organization, or Federal Inspection Agency shall provide oversight for conduct of the inspector's activities.
- (c) The inspector shall be exclusively engaged by an Authorized Inspection Agency, Owner-User Inspection Organization, or Federal Inspection Agency when performing duties of an inspector.
- (d) There shall be an agreement the National Board commission and endorsements issued to the inspector will remain the property of the Authorized Inspection Agency, Owner-User Inspection Organization or Federal Inspection Agency and will be returned to the Authorized Inspection Agency, Owner-User Inspection Organization or Federal Inspection Agency upon termination of the agreement.
- (e) There shall be an agreement the inspector will not engage in any activity constituting a conflict of interest.