

# PROFESSIONAL DEVELOPMENT COURSE

PRESENTED BY ANRIC Enterprises Inc. [www.anric.com](http://www.anric.com)

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## ASME SECTION III QA REQUIREMENTS: NCA-4000 / NQA-1

**LECTURERS:** Mr. James A. Perry, P. Eng & Mr. Richard Barnes, P. Eng  
**LOCATION:** ANRIC Enterprises Inc., 701 Evans Ave., Suite 202, Toronto  
**FEE:** \$1,495.00 (pp/plus GST)

### OBJECTIVE:

This two day course provides an in-depth review of the Quality Assurance (QA) requirements of Section III, of the ASME Boiler and Pressure Vessel Code, for the design and manufacture of components used in the Pressure Boundary of Nuclear Power Plants. It will review and discuss the requirements for planning, managing and conducting QA programs for controlling the quality of activities performed under the jurisdiction of Section III. It will examine the rules governing the evaluation of such programs prior to issuance of Certificates of Authorization for construction of Pressure Boundary components.

Section III has adopted the NQA-1 Standard with some additions and caveats as appropriate. The course will provide an understanding of the basic requirements and the supplemental requirements of the ASME NQA-1 Standard referenced in Section III, including the modifications and supplements in NCA-4120(b) and NCA-4134, that apply to N-type Certificate holders. The course will use practical examples, including two in-depth video tapes on Design and Procurement, to help the participant understand methods and techniques to be employed in implementing the requirements.

### CONTENTS: A two-day course consisting of the following:

Day 1- Course Content	Day 2 - Course Content
<b>BACKGROUND AND INTRODUCTION TO NCA-4000, including scope and applicability, definitions, establishment and implementation and the NQA-1 structure</b>	<b>PROCUREMENT DOCUMENT CONTROL, CONTROL OF PURCHASED ITEMS AND SERVICES.</b>
<b>THE QUALITY ASSURANCE ORGANIZATION and the QUALITY ASSURANCE PROGRAM, including the Quality Assurance Manual.</b>	<b>IDENTIFICATION AND CONTROL OF ITEMS, CONTROL OF SPECIAL PROCESSES, INSPECTIONS, TEST CONTROL, CONTROL OF MEASURING &amp; TEST EQUIPMENT, HANDLING, STORAGE &amp; SHIPPING, INSPECTION, TEST &amp; OPERATING STATUS</b>
<b>DESIGN CONTROL, INSTRUCTIONS, PROCEDURES, and DOCUMENT CONTROL.</b>	<b>CONTROL OF NON-CONFORMING ITEMS, CORRECTIVE ACTIONS, QA RECORDS, AUDITS.</b>
<b>RELATIONSHIP BETWEEN ASME AND CANADIAN QUALITY STANDARDS AND THEIR APPLICATION</b> - N285, N286, 10 CFR 50 Appendix B, and ASME.	<b>NCA-3800, NCA-3900, INQUIRIES, including a question and answer period</b>

For further information contact - Louise McColeman at 416-253-9459 Ext, 111; email: [LMC@anric.com](mailto:LMC@anric.com)

## WHO SHOULD ATTEND:

This course will provide excellent training for persons whose work activity requires them to apply these Codes and Standards. It will enhance their understanding of why QA is fundamental to the nuclear program. The course will be useful to the many disciplines that are required to understand and/or implement Code QA requirements. These disciplines include designers, inspectors, purchasing agents, manufacturers, regulators, operations and maintenance personnel.

## EXPECTATION:

Course participants should understand the approach to quality as well as the relationship between the elements of the quality program used in Section III of the ASME Boiler and Pressure Vessel Code.

## LECTURERS:

**Mr. James Perry** has over 37 years of experience in the area of quality with the nuclear industry and therefore understands its importance in the industry. He was VP Nuclear Quality Assurance from 1986-1995 at Niagara Mohawk and now provides consulting services to the nuclear industry in the areas of nuclear safety, quality assurance training and auditing. He has been a very active participant in the development of different ASME Codes and Standards for the nuclear industry with over 25 years experience in the development of the ASME NQA Standards. He was Chairman of the NQA Main Committee from 1984-1996. This is the Standards committee responsible for NQA-1 to which the subcommittees and working groups developing parts of the standard report. It is this background experience that makes him so suitable to provide guidance on the application of Section III, Div. 1, NCA-4000 since this Quality Assurance program is based completely on NQA-1. Mr Perry is a member and Past Chairman of the Board on Nuclear Codes and Standards, (a position of ASME Vice-President), which is the Senior Committee responsible for initiating and overseeing the development of Nuclear Codes and Standards for ASME.

**Mr. Richard Barnes** is the Senior Engineer at ANRIC Enterprises Inc. and has been actively involved for over 30 years in the development of the ASME and CSA Codes and Standards associated with Pressure Boundary for both nuclear and non nuclear plants. Mr. Barnes is presently a member of the Standards Committee of the ASME Boiler and Pressure Vessel Code, Chair of Section III, the Subcommittee on Nuclear Power, Vice Chair of the CSA N285 Technical Committee and Secretary of CSA N286 Technical Committee on Quality Assurance. He is an associate member of the CSA B51 Technical Committee and President of the Canadian Boiler Society. Mr. Barnes also assists companies with registration of Pressure Boundary products and is actively participating with CSA International on an ACI/B51 Task Group on the development of a centralized approach to the registration of fittings. Mr. Barnes has been recognized for his contribution in this industry by receiving the ASME Dedicated Service Award and more recently the highest ASME Nuclear award, the Bernard F. Langer Nuclear Codes and Standards Award. He will assist Mr. Perry with the Canadian interface of NCA-4000 by presenting a brief overview of the relationship between NCA-4000 and the Canadian Standards on quality.

## IMPORTANT INFORMATION

**Accommodation:** Stay Inn, 560 Evans Ave, (2 minutes drive to 701 Evans Ave.) has quoted \$75.00 per night for 1 bed and \$85.00 for 2 beds, including a continental breakfast, [info@stayinn.ca](mailto:info@stayinn.ca) (416-259-7899/1-888-445-4473). Please refer to ANRIC Enterprises Inc. ASME Section III - NCA 4000 / NQA-1 Course when speaking with reservations. This is a small hotel, so it is advisable to book early.

**Food and Beverage:** At the start of each day juice, fruit, pastries, coffee and tea will be provided before the course. Coffee and Tea will be provided at mid-morning breaks, including pop in the afternoon. Lunch will be provided on both days. Please indicate when you are enrolling for the course if you have any specific food requirements. Every effort will be made to accommodate your needs in this area.

**Course Times:** Registration begins at 8.00 a.m. The course will start each day at 8.30 a.m and finish at 4:30 p.m.

**Dress:** Please dress so that you will be comfortable. It is prudent to dress light and bring a light jacket in case you need it during the course. The tolerance to temperature varies for people and sometimes room temperature acceptable to the majority may not be right for an individual.

**Parking:** There is parking available for a fee of \$5.00 per day. It is important to be a little early to ensure a parking spot. The two hour parking spaces are available for participants to use. There is parking at both 701 and 703 Evans Ave.

**CANCELLATION POLICY:** Cancellation must be received in writing 14 days prior to course start date. If cancellations are made after that date, the cancellation fee will be 50% of the course cost. **PLEASE NOTE:** You may send a substitute. Notification of a substitute must be received 48 hours prior to the commencement of the course or a cancellation fee will be charged.

**ANRIC Enterprises Inc. specializes in courses of caliber to industry by providing lecturers who have recognized expertise and who are involved with the development and application of Codes and Standards.**

ANRIC Enterprises Inc. reserves the right to cancel any course and/or change lecturers.

*Your Success is our Goal*