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ASME SECTION III QA REQUIREMENTS NCA-4000/NQA-1 (PEL-65355)

LECTURER: Mr. Richard W. Barnes, P. Eng.
DATE: See Website for Dates
LOCATION: * **ON-LINE Delivery** through ANRIC Enterprises Inc.
FEE: Register & PAY three (3) weeks before the start: \$1,750.00 (pp/plus HST).
 Register within three (3) weeks of the start: \$1,910.00 (pp/plus HST).
 Group pricing available; please contact <training@anric.com> or
 Call (416) 253-9459. **
 Payment can be made by Credit Card or Purchase Order.
 *See Flyer for Application Workshop

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, required for the design and manufacture of nuclear components. It covers the requirements for planning, managing and conducting QA programs for controlling the activities performed under the jurisdiction of Section III. It will examine the rules governing the evaluation of such programs prior to the issuance of Certificates of Authorization for construction of Pressure Boundary components.

Section III NCA-4000 has adopted the NQA-1 Standard with some additions and caveats as appropriate for construction of nuclear items. The course discusses the application of the NCA-4000/NQA-1 requirements as they apply to N-type Certificate holders.

CONTENTS: Online delivery – Delivered over four (4) half-day segments. (12 noon – 4:00pm)

COURSE CONTENT	COURSE CONTENT
<ul style="list-style-type: none"> BACKGROUND AND INTRODUCTION TO NCA-4000, including scope and applicability, definitions, establishment and implementation and the NQA-1 structure. THE QUALITY ASSURANCE ORGANIZATION and the QUALITY ASSURANCE PROGRAM, including the Quality Assurance Manual. DESIGN CONTROL, INSTRUCTIONS, PROCEDURES, and DOCUMENT CONTROL. RELATIONSHIP BETWEEN ASME AND CANADIAN QUALITY STANDARDS AND THEIR APPLICATION - N285, N286, 10 CFR 50 APPENDIX B, and ASME. 	<ul style="list-style-type: none"> PROCUREMENT DOCUMENT CONTROL, CONTROL OF PURCHASED ITEMS AND SERVICES. IDENTIFICATION AND CONTROL OF ITEMS, CONTROL OF SPECIAL PROCESSES, INSPECTIONS, TEST CONTROL, CONTROL OF MEASURING & TEST EQUIPMENT, HANDLING, STORAGE & SHIPPING, INSPECTION, TEST & OPERATING STATUS CONTROL OF NON-CONFORMING ITEMS, CORRECTIVE ACTIONS, QA RECORDS, AUDITS. NCA-3800, NCA-3900, INQUIRIES, including a question-and-answer period. Checkout

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 include design, inspection, purchasing, manufacturing, regulation, operations and maintenance.

EXPECTATIONS:
 At the end of the course participants should understand the approach to quality adopted by Section III, as well as the relationship between the elements of the quality program used in Section III of the ASME Boiler and



PROFESSIONAL DEVELOPMENT COURSE

Pressure Vessel Code.

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LECTURER:

Mr. Richard W. Barnes is the Principal 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 power plants. Mr. Barnes leads the team at ANRIC Enterprises Inc that offers technical assistance for companies registering Pressure Boundary items and provides expert consultation on the application of the various pressure boundary codes.

Mr. Barnes sits on various code committees responsible for the development of Codes and Standards for quality assurance and requirements for the pressure boundary. He is:

- Past-chair and member of the ASME Standard Committee of the BPV III (Section III).
- Past Vice-Chair and member of N285A Technical Committee.
- Member of the B51 Technical Committee.
- Member of N286 Technical Committee; and
- Member of ASME B16 Standards Committee.

Mr. Barnes is a Fellow of ASME and has been recognized for contribution to the industry through the following awards:

- The ASME Dedicated Service Award.
- The Bernard F. Langer Nuclear Codes and Standards Award.
- The CNA Outstanding Contribution Award.
- The CSA Award of Merit; and
- The ASME Melvin R. Green Codes and Standards Medal.

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

IMPORTANT INFORMATION:

PAYMENT: Full payment is due at time of registration. Payment can be made via credit card (VISA, MasterCard or American Express) or purchase order. **PLEASE NOTE:** Payment is non-refundable within 3 weeks prior to the start of the course.

CANCELLATION POLICY: Cancellation must be received in writing 7 days prior to course start date. You may send a substitute. Notification of a substitute must be received at least **72 hours prior to the commencement of the course to allow time for delivery of course material.** If a substitute is not available, the fee for the course may be used towards another ANRIC course at a later date.

**** ANRIC Enterprises Inc. reserves the right to cancel any course and/or change lecturers. Courses that fail to register a "MINIMUM" of 6 participants will be cancelled. Personnel who require this course to meet qualification requirements should contact the office at training@anric.com to discuss/arrange other options.**

INFORMATION ASSOCIATED WITH ON-LINE COURSES FOLLOWS:

The course is delivered on-line.

The maximum number of people per course is 16 people. This limitation is set because the courses are run with Workshops using Breakout Rooms to provide for maximum interaction and learning experience. This provides an excellent learning opportunity.

All rights, title and content of the course manuals and all other instructional material shall remain the property of ANRIC Enterprises Inc.

The manuals will be delivered to course participants by courier.

The course is run online in half day sessions (4 half-day), to accommodate the ergonomic issues of sitting at a small screen. An added benefit is that it allows people to cover off other work duties during the course. We have successfully done this for the nuclear power stations in Ontario over the past year and this system has proven to be excellent. This course if run in a classroom setting, is a two (2) full day course.

REQUIREMENT: This course requires participants to have video and audio capability.

There will be an examination/checkout at the end of each course. ANRIC Enterprises Inc. will only provide certificates of successful completion for participants that achieve an examination result of 80% or higher and video access is required for the checkout.