



# PROFESSIONAL DEVELOPMENT COURSE

your success is our goal

## QA Programs Workshop Applicable to the Canadian Nuclear Program Standards N286, N299 & ISO-9001/Procurement Quality Assurance (PEL-71217)

**LECTURER:** Mr. Richard Barnes, P. Eng.  
**DATE:** See website for Delivery Dates  
**LOCATION:** ON-LINE Delivery through ANRIC Enterprises Inc.  
**FEE:** Register & PAY three (3) weeks before start: \$2,140.00 (pp/plus HST)  
 Registrations received within three weeks: \$2,270.00 (pp/plus HST)  
 Group pricing available; please contact [training@anric.com](mailto:training@anric.com) or call +1 (416) 253-9459.  
 \*\* Payment can be made by Credit Card or Purchase Order.

### OBJECTIVE:

This, three-day or six half-day course, provides an in-depth review of the Quality Assurance (QA) requirements and the relationship between these standards. It focuses on their implementation. It is conducted in a workshop format. It covers the various requirements of the three standards and how they each relate to the supply of electricity, community service and development, and the products and services for use in the nuclear industry and provide an environment of excellence.

There are various exercises conducted in a workshop format. Participants are set up in teams of three and four persons. These teams work independently of each other and make presentations of the results of their deliberations to the whole group at the end of each exercise. This approach results in excellent engagement between course participants as well as providing an exceptional learning environment. There is a checkout at the end of the course. The course pass mark is 80% made up of two factors: a) student participation 50% and b) checkout 50%.

### CONTENTS:

A three-day course in-house or six half-day course delivered live, online consisting of the following:

CONTENT	CONTENT	CONTENT
<ul style="list-style-type: none"> <li>BASIC CONCEPTS Quality, Quality Assurance, Quality Control, Management System Review of a typical management system</li> <li>N286 – STRUCTURE Basis for the Principles Generic Requirements Specific Requirements</li> <li>“Why do we not get what we ask for?” An overview of the issues.</li> </ul>	<ul style="list-style-type: none"> <li>N299 SERIES Scope Statements for the N299 Standards</li> <li>Regulatory requirements and how N299 meets these requirements</li> <li>General Requirements of the N299 Series</li> <li>QA Program Requirements Clauses 5.1 – 5.4</li> <li>QA Program Elements Clauses 5.5.1 – 5.5.20</li> <li>Application of ANNEX A</li> <li>Brief review of Annexes B, C, D, &amp; E</li> </ul>	<ul style="list-style-type: none"> <li>ISO-9000 Series</li> <li>Review of Principles</li> <li>Scope of ISO-9001</li> <li>Context of the Organization</li> <li>Leadership and Planning</li> <li>Support</li> <li>Operation</li> <li>Performance Evaluation</li> <li>Improvement</li> <li>Checkout</li> </ul>

## WHO SHOULD ATTEND?

This course provides 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 requirements and the application of these standards.

## 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.**

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## 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](mailto:training@anric.com) to discuss/arrange other options.**

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## 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 plus 1 full 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 a half and this system has proven to be excellent. This course if run in a classroom setting, is a three (3) 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.**