

CSA B51 PART 1 - BOILER, PRESSURE VESSEL & PRESSURE PIPING CODE

LECTURER: Mr. Richard W. Barnes, P. Eng. & Mr. Andy Benko
DATE: **July 6, 2020**
LOCATION: ANRIC Enterprises Inc., 701 Evans Ave., Suite 202, Toronto
FEE: **Register four weeks before and pay at time of registration: \$650.00 (pp/plus HST)**
Registrations received within four weeks: \$800.00 (pp/plus HST)

OBJECTIVE:

The objective of the CSA B51 course is to introduce participants to the requirements and application of CSA B51 Part 1 to Boilers, Pressure Vessels and Pressure Piping. It will explore the relationship of CSA B51 to the ASME Boiler and Pressure Vessel Code and B31.1 Power Piping. In addition, it will introduce the Canadian requirements for pressure piping systems. The CSA B51 course will be of interest to personnel involved with Class 6 systems and components in the nuclear industry.

CONTENTS: A one day course consisting of the following:

REVIEW OF CONTENT OF CSA B51

- Regulatory Framework in Ontario
- Registration
- **Specific requirements for:**
 - boilers, pressure vessels, piping & fittings, other equipment
- **Specific Topics:**
 - fabrication, inspection, welding
 - manufacturers' data reports, quality control programs and repairs & alterations

WHO SHOULD ATTEND?

The CSA B51 course is directed toward designers, manufacturers, owners and users of boilers, pressure vessels and pressure piping systems as they apply in Ontario and other Canadian Boiler and Pressure Vessel jurisdictions. These are people who require familiarity with the Canadian requirements for Pressure Boundary in industrial settings or for Class 6 pressure boundaries in Nuclear Power Plants. The course material will concentrate primarily on the requirements in the Standard and not the requirements in the referenced documents.

EXPECTATIONS:

At the end of the course Participants should understand the structure, scope, objectives and implementation of the Code by the Canadian regulatory authorities; including its relationship to the ASME Codes referenced in the Standard.

LECTURERS:

Mr. Richard W. Barnes is the Principle 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 products, and provides expert consultation on the application of the various pressure boundary codes. The ANRIC team also develops and delivers training on both the CSA and ASME Codes and Standards for delivery on-site at the ANRIC Learning Centre and off-site at the clients' premises. Mr. Barnes sits on various code committees responsible for the development of Codes and Standards. He is the past-chair and member of the ASME Standard Committee of the BPV III, which is responsible for the development of Section III of the ASME BPV Code; past Vice-Chair and member of N285A Technical Committee on CANDU Nuclear Power Plant Systems and Components, member of

the B51 Technical Committee on Boilers and Pressure Vessels, and member of N286 Technical Committee on Overall Quality Assurance for Nuclear Power Plants of the CSA Standards Committee; and member of ASME B16 Standards Committee of Standardization of Valves, Flanges, Fittings and Gaskets and member of the Subcommittee responsible for development of the B16:34 Standard. Mr. Barnes has received the ASME Dedicated Service Award and the highest ASME Nuclear award, the Bernard F. Langer Nuclear Codes and Standards Award in recognition for his contributions to the nuclear industry. In 2007, was elected to the ASME Grade of Fellow. In 2009, Mr. Barnes received the CNA Outstanding Contribution Award and in 2011 the CSA Award of Merit.

Mr. Andy Benko is a Technical Services Specialist, Trainer for the Boilers and Pressure Vessels Safety Program for the TSSA in the Province of Ontario. He has over 20 years' experience in pressure equipment manufacture. Mr. Benko worked in the capacity of Inspection, Level II Radiography as well as Quality Manager in facilities manufacturing automotive propane vessels, air receivers and heat exchanger products. In 2003 Mr. Benko implemented ISO 9000/2000 into an ASME Certified Facility. Andy is currently developing training programs for the Boiler and Pressure Vessel Safety Program.

IMPORTANT INFORMATION:

PAYMENT: Full payment is due at time of registration. Payment can be made via credit card (VISA, MasterCard or American Express), cheque or purchase order. **PLEASE NOTE:** Payment is non-refundable.

CANCELLATION POLICY: Cancellation must be received in writing 7 days prior to course start date. If cancellations are made after that date, the cancellation fee will be 50% of the course cost. You may send a substitute. Notification of a substitute must be received at least 48 hours prior to the commencement of the course or a cancellation fee will be charged. **PLEASE NOTE:** The cancellation fee can be discounted towards any future course taken at the ANRIC Learning Centre.

FOOD AND BEVERAGE: At the start of the day juice, fruit, pastries, coffee and tea will be provided before the course. Coffee and Tea will be provided at mid-morning break, including pop in the afternoon and lunch will be provided. 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 begin at 8:30 a.m. and conclude 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. There is parking at 701 and 703 Evans Ave.

ANRIC Enterprises Inc. specializes in courses of calibre 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.