

Design Registration Seminar

*Are you involved in registering designs or pressure equipment in Alberta?
If you are, this seminar will be beneficial to you.*

Seminar Overview

This seminar will assist individuals who wish to enhance their knowledge and understanding of the design registration process in the pressure equipment discipline. The course will use presentations, examples and workshops to explain the design submission requirements for different types of pressure equipment.

Better understanding of the design registration process and requirements for design submissions will help submitters to prepare and submit design packages right the first time. Outcomes of this course will help to increase the number of design submissions without deficiencies, increase pressure equipment safety awareness, and reduce turnaround times for design survey review of applications.

Who should attend?

The course is intended for pressure equipment designers in manufacturing and EPC companies, pressure equipment specialists, people who prepare and submit designs to ABSA for survey and registrations, owners or end-users of pressure equipment, and people who want to learn more about design registration processes in Alberta.

What will you learn?

The course participants can expect to acquire basic knowledge and understanding of the:

- roles of ABSA, the Safety Codes Council, the Boilers and Pressure Vessels Technical Council, and the Alberta Government in delivering pressure equipment safety programs;
- hierarchy of the Safety Codes Act, Regulations, Codes and Standards in Alberta
- Alberta regulatory requirements for design survey and registration
- design registration process
- general design submission requirements
- specific design submission requirements for:
 - pressure vessels and heat exchangers
 - boilers
 - repair and alteration procedures
 - pressure piping systems
 - fittings
- common issues, omissions and deficiencies in design submissions.

At the end of the course, the candidate will have a better understanding of design registration processes, design submission requirements and the expectations of ABSA. Through different workshops, the course participants will learn how to prepare and submit pressure equipment designs for registration in Alberta.

Materials

The seminar will include a manual consisting of a number of different modules designed with sample forms, legislation, information on how to complete and submit to ABSA, workshop exercises, and a slide presentation.

The number of participants is limited to 25 to ensure proper attention to each attendee. Presenters are ABSA design survey staff.

Instructors

Cameron Sterling, M.Sc., P.Eng.

Design Survey Engineer, Safety Codes Officer

Mr. Sterling joined ABSA, *the Pressure Equipment Safety Authority* in 2007 while practicing engineering in Edmonton. His extensive formal education, and his broad work background, makes him a valuable asset to the ABSA team. He works within the Design Survey department of ABSA as a Safety Codes Officer reviewing designs of pressure piping and pressure vessels of all kinds. He also holds a National Board Commission.

Mr. Sterling's formal education includes a Bachelor of Science with Specialization in Mathematics obtained in 1986, a Bachelor of Science in Mechanical Engineering obtained in 1989, and a Master of Science in Mechanical Engineering obtained in 1996, from the University of Alberta.

He is a registered professional engineer in Alberta, and served his professional association as a member of the Investigative Committee.

Before joining ABSA, Mr. Sterling provided engineering services in the electric utility, forensic engineering, private consulting, academic, and EPCM industries. His activities included analysis and testing of dynamic and static machinery performance and operation; heating, ventilation and cooling assessments; selection and management of capital equipment; construction projects; energy efficiency analyses; teaching engineering statics and dynamics as a staff member at Grant MacEwan College; and the technical reconstruction of events leading to fatalities, injuries, and property losses for insurance companies and legal firms. As a result of these investigations, he provided and presented expert witness testimony on several occasions to both the Court of Queen's Bench of Alberta and Provincial Court of Alberta.

He is currently a primary instructor for the *Design Registration Seminar*.

Po Fok, P.Eng.

Design Survey Engineer, Safety Codes Officer

Po Fok has been working with ABSA (formerly Alberta Boilers Branch) for the last twenty years in the design survey group. As a design survey engineer, he examines design drawings and specifications of boilers, pressure vessels, fittings, pressure piping systems and as well as repair/alteration submissions to establish that the designs conform to the applicable codes accepted under the Safety Codes Act & Regulations and to sound engineering practice.

Before joining ABSA, Po worked in a valve manufacturing company as a Q. A. & Engineering Manager. He was responsible for all Q. A. functions within the organization and responsible for design and engineering of valve components. Prior to that, Po also worked as a project engineer for a consulting firm, conducting N.D.T. inspection on pressure vessel, piping, tower crane, mobile crane, manlift, and other heavy equipment. Based on the inspection findings, he would provide recommendation for remedial action and certify same for further service. He had also tested and evaluated fire damage vessel, ROP, structural steel, wire ropes for mines, marine drilling ships and skilifts. He presents for the *Design Registration Seminar*.

Jesus De Leon, P.Eng.

Design Survey Engineer, Safety Codes Officer

Jesús De León joined ABSA, *the Pressure Equipment Safety Authority* in 1997 in the Design Survey Department. For the past 13 years he has been working in the Design Survey Engineering area, reviewing designs of pressure vessels, fittings, piping and repair or alteration procedures to ensure compliance to ASME / CSA Codes / Alberta Regulations, as defined under the Alberta Boilers and Pressure Vessels Regulations. He is a Mechanical Electrician Engineer who earned his degree in the Autonomous University of Nuevo León in the city of Monterrey, Nuevo León, México. He has also completed seven graduate courses toward Electrical M. Sc. Degree and 12 graduate courses toward Business Administration M. Sc. Degree.

His first work was in the Federal Electricity Commission, the National Power Company in México, in the Electrical Distribution Department. Basically. Making the electrical networks in the design of towns.

Mr. De León was an Instructor in the Autonomous University of Nuevo León specializing in Electrical Circuits Direct and Alternating Current, Three Phase Circuits and Differential Equations.

He has also worked as an Engineering Superintendent in a chemical group. He supervised and provided maintenance to four industrial plants: Chlorine and Caustic, Hydrochloric Acid, Sulfuric Acid and Carbon Disulfide. In the same chemical group, he was a Quality Management Superintendent responsible for setting up the Quality Management Process for the entire company. He also provided training to about 175 employees.

Djordje Srnic, M.Sc., P.Eng.

Design Survey Manager, Safety Codes Officer

Djordje Srnic was born and raised in Belgrade, Serbia where he obtained his Bachelor Degree in Mechanical Engineering (1984) and Master of Science (1990) degrees from the University of Belgrade. He moved to Canada in 1996.

Djordje joined ABSA, *the Pressure Equipment Safety Authority* in 1996 as a Design Survey Engineer working on design reviews and registrations; special projects, responding to technical enquiries; and providing technical support to the department. His expertise and guidance to ABSA staff and clients has assisted them with interpretation of regulations, codes and standards. He has his National Board commission and a Safety Codes Officer designation with ABSA.

He was a Project Engineer, Team Leader and Boiler Design Engineer for 12 years with several companies in Belgrade, working on boiler and pressure vessel design, repairs and alterations; developing boiler calculation programs; leading boiler projects from start to commissioning; and leading equipment delivery projects for power plants.

He brings a strong international engineering experience from many diverse projects throughout his career. He is a professional member of APEGGA and the Republic of Serbia. He has published six papers relating to boiler safety and efficiency. He presents for the *Design Registration Seminar*.

Facilities



Seminar Cost: \$997.50 per person (including GST)
Schedule & Registration: www.absa.ca/ECprogram/Seminars/TrainingNews.aspx
Location: 9410 20 Avenue, Edmonton, Alberta, Canada

Contact Information: For further information, please contact ABSA at:
Tel: (780)437-9100 ext 3311
Fax: (780)437-7787
Email: training@absa.ca