

ALBERTA'S

FUTURE MAGAZINE

CCIS Pressure Equipment Inspection Technician (PEIT) Training Program

A CCIS Model for Training Success

Supported
By:



CCIS PEIT

CCIS Pressure
Equipment Inspection
Technician (PEIT)
Training Program

SPECIAL EDITION



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**Khalid Hakim, Chief Editor,
Program Coordinator/
Media Specialist**

It is with great delight that I bring to you our 2nd special edition of Alberta's Future magazine.

I had great pleasure in putting together this edition to highlight the first intake, the results and the outlook for the second intake of the Pressure Equipment Inspection Technician (PEIT) Training Program. This edition provides a brief outline of the next group that will be graduating soon and will be available for work experience and/or recruitment opportunities. We are very thankful to industry members, stakeholders, and government for their continued support and look forward to continued collaboration, and to have yet another talented group complete and graduate the program. Please feel free to reach out to any of our team members or myself for any information. I hope you enjoy this edition.



Bob Khan
OGTP Director of Operations
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Current market trends are indicating economic instability, leading to changes and unsettling feelings of uncertainty. The ambiguity has tested the resiliency of Alberta, presented challenges but encouraged innovation and vigor to take place, often led by industry leaders.

As a result of these times, and the 18 years of experience in providing comprehensive training programs for new Canadians for various industries in Alberta, I implemented the first Pressure Equipment Inspection Technician (PEIT) Training Program in 2017, to help meet the needs of industry last year. The PEIT training program is designed to satisfy some of the need for entry-level Technicians who are trained and qualified. The achievements of our first intake has paved the way for a second intake which is currently underway.

I would like to especially recognize the support and involvement of the International Pressure Equipment Integrity Association (IPEIA) Board, Dan Violini and its members who attest to the significance and importance of the training opportunities. Industry leaders are a vital connection for us and the graduates of the program; you continue to allow us to enrich not only our programs and its delivery but the diversity of the industry – Thank you!

Through collaboration and relationship building with various organizations, the graduates from the first program have been able to secure employment in Alberta and British Columbia. This previously untapped talent pool is utilizing their newly gained skills and knowledge to complement their previous backgrounds in assuming their new careers in inspection and integrity.

Without the funding from the Government of Canada and Government of Alberta, this program would not be possible. We thank the Governments for providing opportunities for the integration of newcomers and further encouraging the economic development of the Province.

We look forward to staying connected with you as we prepare this second group of newly trained Pressure Equipment Inspection Technicians for entry-level work in the industry. Feel free to reach out to me or my team at any time.

Sincerely,

Bob Khan
Director of Operations

ABOUT US

Calgary Catholic Immigration Society (CCIS) is a non-profit organization providing settlement and integration services through delivery of comprehensive services to all immigrants and refugees in Southern Alberta.

The CCIS' Oil & Gas Training Programs (OGTP) was established in 2001 with the Drilling Rig Training Program. It has since been recruiting New Canadians for entry level positions in the oil and gas sector, and offering industry unique training



programs for the gas, oil, and energy industry. It supports new Canadians, through the delivery of a variety of specialized training programs to access employment in Canadian oil fields and related industries by providing them with comprehensive training including extensive safety training and certification, technical components and hands-on job experience. Through these trainings, CCIS-OGTP helps build better careers for the students.

CCIS-OGTP's Drilling Rig training program was followed in 2005 by the Service Rig training program, and in 2008 by the Seismic training program. In 2013, the 4th Class Power Engineering training program began which was followed by the 5th Class Power Engineering training program in 2015, and the latest inclusion is the Pressure Equipment Inspection Technician (PEIT) training program which began in 2017.

Major petroleum associations such as Canadian Association of Oilwell Drilling Contractors (CAODC) and the Canadian Association of Geophysical Contractors (CAGC) have endorsed the Drilling Rig, Service Rig and Seismic training programs, respectively under the umbrella of OGTP. The Alberta Boilers Safety Association (ABSA) and the Building Operators Association (BOA) have approved both the 4th and 5th class Power Engineering/ Building Operator Training Programs. The International Pressure Equipment Integrity Association (IPEIA) has affirmed their support for the new Pressure Equipment Inspection Technician (PEIT) Training Program.

CCIS-OGTP's diverse team under the leadership of Bob Khan, Director of Operations, brings expertise and capability to the forefront to deliver these highly successful and comprehensive training programs.



ABSA





The OGTP training model engages key industry stakeholders in program design and implementation. These industry driven programs are uniquely tailored to address the needs of industry. Employers' business goals and objectives are consistently met with a high caliber of well-trained, hard-working and safety-oriented employees. The importance of safety is emphasized throughout the training, which is reflected in the OGTP's exceptional zero incident/accident safety track records.

All programs under the CCIS-OGTP portfolio are established through government funding and are in partnership with Energy Safety Canada, SAIT and other industry organizations and with the collaboration, support and involvement of industry. The development of strategic partnerships is the key to success of CCIS-OGTP.

OUR TEAM



Bob Khan

Director of Operations



Monika Bhandari

Senior Program Coordinator



Khalid Hakim, Chief Editor,
Program Coordinator/
Media Specialist



Vina Mariano

Intake Officer



Initiate
Involve
Implement

Become involved in our training programs!
Contact us for more details!

PEIT ADVISORY COMMITTEE

With the guidance of various representatives of IPEIA and Industry, the PEIT program made its mark. The support that has been received to enhance this training program has been overwhelming. Through IPEIA Board members and representatives from major players in industry, the PEIT program, in its second intake, has been further enhanced and improved. It was also very important for CCIS-OGTP to create an Advisory Committee for the program. A properly composed and structured Advisory Committee can be a tremendous complement to the effectiveness of the program as it works to carry out the training program. Led by Dan Violini, some of industry's leaders were enlisted to be a part of this committee.

CCIS PEIT Advisory Committee Members:

Dan Violini	CCIS - IPEIA	Nick Marx	IRML
Nathan Bartley	Acuren	Todd Oliphant	Streamline Inspection Ltd.
Monika Bhandari	CCIS	Ritch Rapell	Enbridge
Josh Brewster	SAIT	Terry Williams	Canlin Energy Corporation
Dan Deck	YoungEnergy Serve Inc.	Guy Young	YoungEnergy Serve Inc.
Bob Khan	CCIS	Jim Yukes	IPEIA
Radu Marci	IrisNDT		

The Committee met in September 2018 to discuss the overall program and the outcomes achieved. Whilst most targets were met, the Committee was able to put forward some recommendations for the delivery of PEIT training program for further enhancements. Some of the key points were taken into consideration and as a result, CCIS-OGTP made the following improvements to the PEIT Program this year:

- **NDT Training at SAIT:**
 - Addition of Certified Exposure Device Operator (CEDO) course
 - Incorporation of the various NDT methods throughout the duration of the training
- **Include introduction of API 653 – Aboveground Storage Tank Inspector**
- **Unpaid work experience**
- **Achievement of one CGSB certification upon graduation**



From the left: Josh Brewster, Terry Williams, Dan Violini, Bob Khan, Monika Bhandari, Nick Marx, Jim Yukes, Ritch Rapell, Nathan Bartley

PEIT PROGRAM SO FAR ...

The 34-week PEIT full-time training program is an entry-level program for the Pressure Equipment Inspection and NDT industry. It is designed for individuals with good skills in science and math and those who have technical and mechanical experience who are interested to build a career as Pressure Equipment Inspection Technicians.

Upon completion of the program, which includes theories, laboratory experience on NDT equipment and practical experience, students will have a good background in ASME Codes, ABSA and other related industry regulations that will prepare them to meet the guidelines to write/challenge their level 1 CGSB and prepare for API certifications.

The students are also provided with the safety tickets which are essential in performing their jobs, as well as work experience from host employers.

The first PEIT program has 100% completion rate, all 15 students were able to graduate the program with high marks, with about 70% success rate for employment.

Currently, CCIS-OGTP is running its second intake of the PEIT program which started on November 26, 2018 and will come to completion on July 19, 2019. As in the first intake, this class is composed of internationally educated and highly qualified individuals with strong technical backgrounds which, upon graduation, will have one CGSB certificate and can prepare for API certification.



Funded by:

Canada

Alberta

Supported by: in partnership with:



The PEIT students are an absolute pleasure to teach. By leveraging their technical and mechanical experience, we were able to optimize our time in the classroom and lab.



Their command of the material and corresponding academic success are second to none. I am confident that the PEIT graduates will excel in the relevant and rewarding field of inspection.

Josh Brewster, CET, RSE

Academic Chair

Welding Engineering Technology Non-Destructive Testing

School of Manufacturing and Automation

Southern Alberta Institute of Technology - SAIT

PEIT Training Components

In class Training

- Introduction to Pressure Vessels, Processes and Piping
- API 510 – Pressure Vessel Inspection
- API 653 – Above Ground Storage Tank Inspection
- Introduction to Codes
- ASME Sections 1, 2, 4, 6 & 8
- Introduction to ABSA and other Regulatory and Industry Groups
- Introduction to Corrosion & Welding

Technical Training

NDT (theory and lab work)

- Liquid Penetrant
- Magnetic Particles Imaging
- Certified Exposure Device Operator (CEDO)
- Ultrasonic

Safety Training

Demonstrate awareness of occupational safety

- Personal Protective Equipment (PPE)
- Safety Reporting and Responsibility

Safety training certifications

- WHMIS & TDG
- Confined Space
- Standard First Aid
- Detection and Control of Flammable Substances
- H2S Alive

Employment Preparation

- Technical English (Recognizing and defining technical terms and abbreviations in Inspection and Integrity Industry)
- Resume Writing
- Work Experience Placement
- Interview Preparation
- Job Search Skills



INDUSTRY SUPPORT

Market place trends and needs are constantly monitored to determine labour market requirements. Many new Canadians come to Canada with professional backgrounds and experiences but cannot continue in their careers due to the lack of credential recognition and/or lack of Canadian work experience. By partnering closely with government and industry, CCIS-OGTP designs and delivers training programs to address these two issues – the programs provide students with recognized Canadian credentials, and through the unique partnership model, the program connects the students with industry, especially through work experience. This connection is appealing and engaging for industry, as it provides ample opportunity to participate and tap into the new Canadian talent pool, without the obligation to hire. Engagement for industry is also appealing as **students are covered under the Government of Alberta for liability, WCB coverage is also provided.**



GUEST SPEAKERS

A variety of guest speakers visited the class throughout the duration of the training program. These were opportunities for guests to share industry knowledge, provide pointers and necessary information and to stress the importance of networking and building contacts.



WORK EXPERIENCE

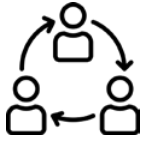
The PEIT program allowed opportunities for the students to complete work experience. Companies provided practicum ranging from 2 weeks to almost 6 weeks. The work experience and the working environments allowed the opportunity for students to further understand or 'fill the gaps' of their theory and lab training, as well as learn and become familiar with the work and its environment, in full action. Supervisors/Managers and co-workers often become mentors and fundamental elements to the student's prospective networks. The value of work experience opportunities can not be overstated! Through these opportunities, students discover areas of strengths and weaknesses in this new career area, develop an appreciation and understanding of Canadian corporate culture and build relationships and consequently, confidence in this line of work. The work experience resulted in some of the students gaining employment with their host companies.

The PEIT (Pressure Equipment Inspection Technician) program is now in its second year at CCIS. Last year's graduates are now working on inspections, turnarounds, project planning and contributing to the safe operation of pressure equipment in Western Canada. The response from industry has been overwhelmingly positive so much so that CCIS is training another intake. Graduating with at least one CGSB NDT ticket and a good basic knowledge of Codes, Regulations, API, and general process knowledge, these future inspectors are set to join the industrial and engineering testing companies staff for the benefit of the entire industry.

They will help us all be vigilant since "**Rust never sleeps**"



Dan Violini - PEIT Advisory Committee - IPEIA



PEIT FINAL SELECTION

Throughout the delivery of CCIS-OGTP, the support from companies and collaboration from SAIT, Energy Safety Canada and Industry have been elements of success. The development of strategic partnerships is a crucial factor; the CCIS-OGTP training model engages key industry stakeholders in program design and implementation. Industry participation ranges from guest speaking, arranging tours/



site visits and assisting in Final Selection Interviews. For the second intake of the PEIT training program, the following companies participated in the Final Selection Interviews:

- o Acuren - Larry Bartley
- o Canlin Energy & IPEIA - Terry Williams
- o IRML - Nick Marx
- o IPEIA - Dan Violini
- o IrisNDT - Radu Marci
- o Skystone - Michelle Lavender

The benefits of partaking in these interviews is three-fold:

1. Industry helps determine suitability of applicants through relevant and valuable feedback
2. Applicants have a first-hand opportunity to be interviewed with industry professionals and
3. Industry has an opportunity to get to know the applicants (and therefore potential recruits) well in advance of training completion



CLASS OF 2019



For the PEIT programs, I have had the privilege of instructing the group at CCIS. This endeavor has been extremely humbling for me. We have attracted some of the best engineering minds the world has to offer. To many the promise of a new life in Canada has not materialized. This is a resource of staggering proportions which has been underutilized. I have the honor of playing a small part in helping to rectify this situation.

The background of this group is amazing. As we move through the topics of the course various individuals contribute insights from their backgrounds. I have pointed out that the group may never have the same opportunity to share cutting edge engineering technology. We collaborate to understand the nuances of the material we are studying. Throughout this experience a brotherhood is established and each member of the group helps and receives help from the group. Our philosophy is that no one is left behind. These are exceptional people. We need to utilize their experience and intelligence.



Ben Martin, PEIT Instructor - CCIS

The CCIS PEIT Training program students' technical know-how and expertise, strong work ethics and safety training certifications make them highly competitive and suitable candidates for the Industry.



Arun Mathews

- Bachelor's Degree in Mechanical Engineering (India)
- ASNT certified in MPI, LPI, UT, RT
- 4.5 years of experience as QA & QC Engineer in Engineering, Procurement and Construction (EPC) companies
- Good knowledge of ISO 9001 quality systems
- Strong analytical and troubleshooting skills



Carlo Lallana

- Bachelor of Science in Materials Engineering (Philippines)
- 12 years experience in the Engineering, Procurement, and Construction (EPC) industry
- Piping material specifications development and support to procurement
- Experience in the metallurgical design of oil and gas production plants, refineries, and petrochemical plants
- Well versed in ASME B31.3 and ASTM standards for piping and valve materials



Farhad Hamzehlu

- Master's Degree in Civil Engineering (Iran)
- Over 10 years of experience in pipeline engineering, construction and inspection in international companies
- Experience in NDT, In-Service welding, ILI, Integrity Assessment, and Hot Tapping
- Motivated and enthusiastic



Frederic Xu

- Master's Degree in Geotechniques and Infrastructure (Germany)
- Bachelor's Degree in Structural Engineering (China)
- 5 years experience in design and construction of geotechnical engineering
- 8 years experience in international cooperation on energy efficiency and renewable energy's application in cities and buildings
- Strength in mathematics, physics, mechanics and chemistry



Gene Ogbor

- Bachelor's Degree in Civil Engineering (Nigeria)
- Experience in Oil and Gas Construction, Inspection and Control
- Experience in Above Ground Storage Tank Fabrication and Rehabilitation
- Experience on NDT inspection and Turnover Coordination
- Team player and highly motivated



Junaid Farooqui

- Precision Mechanical & Instrumentation Diploma (Pakistan)
- CAD, CAM, PLC, HSA Safety, Primavera & PEIT (Certificates)
- Strong mechanical aptitude allows the hands-on operation of plant equipment with focus on system performance
- Attention to detail with high level of safety, quality and accuracy inspections



Kolade Joaquim

- Master's Degree in Applied Biochemistry and Biocatalysis (United Kingdom)
- NACE Certified Senior Internal Corrosion Technologist
- Over 5 years technical experience in Asset Integrity and Corrosion Mitigation in Oil and Gas
- In-depth experience in Oil field Chemical Application in pipelines and pigging
- Strengths in chemistry, corrosion, data management and safety
- Goal-driven and knowledgeable



Majed Sinjar

- Bachelor's Degree in Petroleum Engineering for exploration and production (SAIT-Calgary)
- Bachelor of Science in Petroleum Engineering (Syria)
- Off-shore and on-shore drilling and well services supervisor
- Experience in well testing, well control and pressure testing
- Well-versed in mathematics



Mario Guardado Medina

- Master's Degree in Mining Engineering (Australia)
- Bachelor's Degree in Chemical Engineering (Honduras)
- Experience as Quality Control Manager and Mineral Processing
- Excels at problem solving, creative and critical thinking
- Strong leadership and communication skills



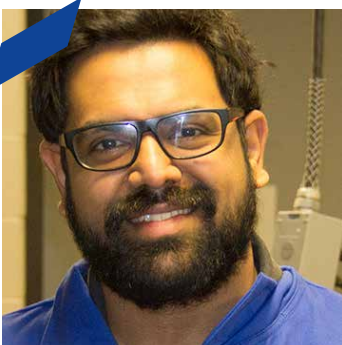
Maziar Samak Abedi

- Master's Degree in Petroleum Engineering (Iran)
- Well-site and production plant experiences
- Petrochemical plant construction experience
- Strong analytical skills and team player



Michael Antony

- Bachelor's Degree in Electronics and Instrumentation Engineering (India)
- Experience in powerplant instrumentation installation
- Experience in commissioning
- Strong analytical skills and quick learner



Seth Chandrasekar

- Master of Science in Petroleum Engineering (United Kingdom)
- Bachelor of Engineering in Electronics & Instrumentation (India)
- 5 years of experience in oil & gas industry
- Experience in pipeline transfer and distribution of petroleum products through tankers & wagons
- Expertise in reserves estimation, basin analysis and evaluation
- Good decision-making skills and team player



Syed Anwar

- Bachelor's Degree in Electronics & Instrumentation Engineering (India)
- 7 years of experience in oil and gas industry
- Applied working knowledge of isometric drawings/P&IDs
- Detail-oriented, team player and good safety awareness



Rasheed Yusuf

- Bachelor's Degree in Civil Engineering (Nigeria)
- Experience in fabrication and welding of process piping, tanks and pressure vessels
- Experience in reading and interpretation of piping isometric, P&ID's and piping general arrangement drawing
- Good knowledge and understanding of API 510 & ASME Codes such as Sections II, V, VIII, IX and 31.3
- Knowledge and understanding of non-destructive testing methods including limitations
- Strong people skills and motivated



Tarik Sahraoui Hamdi

- Master's Degree in Civil Engineering (Morocco)
- Major in math and physics
- 4 years of experience in construction industry
- Broad knowledge in hazardous chemical handling
- Strong knowledge in safety procedures



Tauqeer Javaid

- Master's Degree in Petroleum Engineering (University of Calgary)
- Bachelor of Science in Petroleum Engineering (Pakistan)
- Experience in well construction and processing
- Fast-learner and adaptable
- Self-starter, team player and hard-worker



Vincent Oji

- Bachelor's degree in Mechanical Engineering - Automotive Option (Nigeria)
- Over 5 years hands on experience in troubleshooting, inspection and maintenance
- Strength in interpreting and applying, inspection procedures, specifications and strong safety awareness
- Interest in continuous improvement and quality assurance
- Ability to adjust in a diverse work environment, focused and goal-driven



Students will be available for work experience placements.

Placements are:

- Unpaid
- 4 to 6 weeks in duration
- Covered for liability and WCB

There is no obligation to hire any of the students upon completion of the placement and there is NO cost to you!



CCIS PEIT  CCIS Pressure
Equipment Inspection
Technician (PEIT)
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GET IN TOUCH

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