

Behzad (Ben) Azampour, PEng

BSc. Mechanical Engineering

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HIGHLIGHTS

- 4 years of experience as plant reliability and maintenance engineer plus 2.5 years of previous technical internships.
- Registered Professional Engineer (PEng). Currently pursuing PMP certification.
- Experienced in operation and maintenance of large scale manufacturing and production facilities.
- Proven experience in data analysis and continuous improvement techniques.
- Highly skilled in maintenance planning, scheduling and execution principles.
- Knowledgeable in industrial equipment such as pumps, piping systems, and pressure vessels.
- Exceptional computer skills including asset management software such as SAP.
- Trained and experienced in process safety principles.

EDUCATION

University of British Columbia

- **BSc. Mechanical Engineering (Mechatronics Option) with Coop Standing** **2013**
- **Minor in Commerce** **2013**

RECENT WORK EXPERIENCE

Maintenance Engineer, Utilities

Jun 2013 – Oct 2016

Shell Canada Ltd. | Albion Sands Plant

- Worked as the site maintenance engineer for the Utilities production unit.
 - Helped achieve \$3M (or 30%) reduction in my area's maintenance costs over three years.
 - Analyzed, corrected and optimized over 700 PMs with emphasis on higher frequency PMs.
 - Opened 35% manpower availability previously spent on redundant or non-value-added work.
 - Managed various-scale maintenance activities on pumps, exchangers, boilers, gas turbines, valves, instruments, and piping systems.
 - Coordinated activities in multiple major maintenance and shutdown / turnaround events.
 - Participated in maintenance risk-ranking, planning, scheduling and execution meetings.
 - Developed numerous maintenance standard work procedures from simple calibration to complex underwater repair procedures.
 - Supported work processes such as Critical Task Analysis (CTA), Reliability Centered Maintenance (RCM) and Root Cause Analysis (RCA).

Reliability Engineer, Utilities (Interim)

Jun 2013 – Jul 2015

Shell Canada Ltd. | Albion Sands Plant

- Covered as the interim reliability engineer for the Utilities production unit.
 - Identified, analyzed and prioritized threats to safety, production and the environment in the area.
 - Achieved 80% improvement in the closure of threats over two years.
 - Decreased critical equipment downtime by 40% and reduced area's production loss by 55%.
 - Led multiple HAZOPs, Root Cause Analyses (RCA) and Critical Task Analyses (CTA).
 - Oversaw the area's Management of Change (MOC) process to ensure safe and effective delivery.
 - Produced high-quality periodic reliability reports for higher management review.

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RELEVANT INTERNSHIP EXPERIENCE

- **Reliability Engineering Intern**, Shell Canada Ltd. **2012**
 - Utilized reliability analysis techniques such as Weibull and Crow-AMSAA to analyze the bad actors for the hydraulic and electric shovel fleet.
 - Produced a detailed final report along with correction and mitigation plans.
- **Turnaround Intern**, Suncor Energy Inc. **2011**
 - Coordinated the execution of control valve and PSV scope during the shutdown.
 - Produced over 100 as-built drawings and datasheets after the turnaround.

TECHNICAL SKILLS

<u>Mechanical Engineering</u>	<u>Maintenance Integrity & Execution (MIE)</u>	<u>Reliability Engineering</u>	<u>Computer and Software Skills</u>
<ul style="list-style-type: none">○ Pressure Vessel Design Principles○ Piping & Relief Systems Design○ ASME / ABSA / API Codes○ Compressors / Pumps / Turbines	<ul style="list-style-type: none">○ PM Strategy Optimization○ Planning, Scheduling & execution.○ Turnaround & Major Maintenance○ Standard Work Procedures	<ul style="list-style-type: none">○ Reliability Centered Maintenance (RCM)○ Weibull / Crow-AMSAA○ FMEA / Root Cause Analysis (RCA)○ Process Safety / HAZOP	<ul style="list-style-type: none">○ Caesar / AutoCAD / Visio / SolidWorks○ SAP / MS Project / Primavera○ MS Excel / Word / PowerPoint / Access○ Excel Macro, VBA, MATLAB.

NOTABLE TRAININGS / CERTIFICATIONS

- **Process Safety Principles**, by Shell Canada Ltd. **2016**

Trained on process safety design principles, which included topics such as instrument-protective-functions (IPF), overpressure protection, area classifications, flammability studies, etc.
- **Introduction to ASME Pressure Equipment Codes**, by CASTI **2015**

Introduced to B31.1/B31.3 (Power and Process Piping), Section VIII, Div 1/Div 2 (Pressure Vessels), and Section IX (Welding).
- **Mechanical Design Principles**, by Shell Canada Ltd. **2015**

Trained on design and calculations of pressure vessels, piping, relief systems and pumps.
- **Reliability Engineering Basics**, by Shell Canada Ltd. **2014**

Introduced to reliability tools and techniques such as FMEA, Weibull, and Crow-AMSAA.
- **Maintenance Integrity & Execution (MIE)**, by Shell Canada Ltd. **2014**

Trained on industry principles regarding the planning, scheduling and execution of corrective, preventive, and safety-critical maintenance.

PROFESSIONAL AFFILIATIONS

- **Association of Professional Engineers & Geoscientists of Alberta (APEGA)** **2013 – Present**