



## **Water Security Agency Water and Wastewater Operator Certification Program**

### **Continuing Education Unit Evaluation and Credit**

# **Saskatchewan Water Security Agency Water and Wastewater Operator Certification Program**

## **Guidelines for Continuing Education Unit and Course Evaluation**

### **Background**

Certification is based on *The Environmental Management and Protection Act, 2010* (EMPA) that was enacted on June 1, 2015. Section 98(1) Items (u) to (y) of this Act provides, in part, that the Lieutenant Governor in Council may make regulations respecting training and qualification of operators of the waterworks and sewage works. The Waterworks and Sewage Works Regulations, states in Section 62 that all owners of a municipal waterworks or wastewater works **are required** to ensure the responsibility for the overall day-to-day operation of the works be placed with an operator(s) holding the appropriate certificate(s).

The Environmental and Municipal Management Division of the Water Security Agency (WSA) administers the Water and Wastewater Operators Certification Program for the province. The WSA is a member of the Association of Boards of Certification (ABC), and follow their model for certifying Water and Wastewater Operators.

One of the requirements for higher levels of certification is formal post-secondary education. A need for a Continuing Education Unit (CEU) to enable operators, without post-secondary education, to achieve an equivalent education level was needed. The CEU system in use by the WSA is recognized and adopted from the ABC model and the International Association for Continuing Education and Training (IACET).

### **The Continuing Education Unit (CEU)**

By definition, one Continuing Education Unit equals ten contact hours of participation in organized continuing education/training experience under responsible, qualified direction and instruction as approved by the certification authority.

Forty-five (45) CEU is equivalent to 1 grade of high school level achievement or 1 year of post-secondary education.

Course relevance is determined on a case-by case- basis by the WSA Operator Certification Program. Some exceptions are given to courses reviewed by other certification authorities such as AWWA, ABC, Manitoba Water and Wastewater Facility Operators Certification Program, Alberta Environment Water and Wastewater Operator Certification Advisory Committee, etc.

### **Post-Secondary Education**

The Saskatchewan Water and Wastewater Works operator Certification Standards, 2012, require either 2 years of post-secondary education for Level III certification or 4 years of post-secondary education for Level IV certification. Substitutions of applicable approved experience or CEU are permitted.

Post-secondary education is defined as a one, two, three or four year program at a recognized institution that results in a diploma, certificate or degree. The program must be shown to be relevant to the water and wastewater operations industry. This means that it must be science/math based rather than arts/humanities based.

Course relevance and partial degrees, diplomas or certificates is determined on a case-by case- basis by the WSA Operator Certification Program. The maximum post-secondary education credit that can be applied to the certification program is four years.

### **Educational Course Assessment for the Operator Certification Program**

#### **Equivalent Time Calculation**

For the purpose of calculating time allocation, one year of post high school is equal to 30 credit hours of university courses based on five classes each of three credit hours per semester over two semesters; 1,200

hours of course content from a technical school; 45 CEU's of training in an appropriate field; or completion of a full year of course content in an appropriate field of study as defined below.

## **Appropriate Field of Studies - Completed Degrees and Diplomas**

For the purpose of completed degrees and diplomas a DACUM will be used to assess the acceptability of the program. The DACUM establishes the minimum course content requirements to meet the training needs of an operator. The DACUM for water and wastewater operators requires that any degree or diploma include the minimum of:

- courses in mathematics or physics;
- courses in environmental studies, water/wastewater or related fields; courses in a natural science (Biology, Chemistry); and
- courses in administration or management.

In general, the following areas of study are appropriate as post-secondary educational fields:

- a Bachelor Degree in Science, Medicine or Engineering resulting in a B.Sc, B.A.Sc or B. Eng. This includes Agriculture, Biology, Laboratory Studies and Chemistry degrees; and
- a diploma in the field of Applied Science and Technology, Laboratory Studies, Medical Studies or Engineering Technology.

If a degree or diploma does not meet the minimum DACUM requirements, the applicant will be advised of the missing component(s) and be required to supplement their education by attending CEU accredited courses or by other educational means. The Certification Board will review and assess non-traditional educational programs not addressed by this policy as required. The assessment will be based on a common understanding of educational requirements needed for an operator to perform their duties.

## **Education and Training**

Education and training can be broken into several separate categories:

1. High school diploma, high school equivalency diploma or GED, as well as "Adult Upgrading" are NOT eligible for CEU assignment.
2. Formal post-secondary programs (certificate, diploma, degree)
3. Formal related water and wastewater training on specific topics or for preparation for certification exams – eligible for CEU assignment.
4. On-the-job training is NOT eligible for CEU assignment.
5. In-house training MAY be approved for CEU
6. Continuing education courses or events that do qualify for CEU.

## **Courses Considered for CEU**

Any course that meets the definition of CEU, and that can be referenced to a recognized need-to-know, will be assigned CEU. This includes classroom courses, seminars, conferences or workshops. It also includes courses that are offered by correspondence or on-line. CEU for correspondence or on-line courses will be determined by assessing the amount of time it would take to deliver the material if it were to be delivered in a classroom setting, not the amount of time it actually takes to complete.

The following is a partial list of trainings/courses that are recognized by the Certification Program. If you have taken training that is not listed here and you think that it is relevant, you may submit a course outline/description to the Certification Coordinator for review. The list will be updated regularly as new courses are submitted for assessment.

## **CEU Listing**

The Water Security Agency will be maintaining a list of courses that have been assigned CEU's. The list will be divided into two parts, the first will list those courses that are continuously available or are available on a regular basis and the second will be those courses that were on-time offerings and are no longer available.

CEU's will not be given for duplicate training. (i.e. an operator will not receive CEU credit for repeating the same course).

If you have taken training and it is not listed on the approved list, and you think it is relevant, you may submit a CEU Evaluation Form to the Operator Certification Board. The form can be found at <https://saskocb.ca/wp-content/uploads/CEU-Evaluation-Form-June-10-2020.pdf>

The available training listed may or may not be current. Please contact the training provider directly for more information on specific courses.

## ABCGA

• Astec Safety – Supervising Ground Disturbance - ABCGA 201		0.5
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## Academy of Learning

• CompTIA A+ Certification Essentials (Academy of Learning)		10.0
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## Advanced Municipal Solutions (AMS)

• Biofiltration Basics		0.6
• Cross Connection Control and Backflow Prevention		0.6
• Distribution System/Pipeline O&M		0.6
• Hygienic System Operation		0.6
• Lead and Copper – Contaminants of Concern		0.3
• Level 1 WT / WD Certification Exam Preparation		3.0
• Level 2 WT / WD Certification Exam Preparation		3.0
• Level 3 & 4 WT Certification Exam Preparation		3.0
• Level 1 WWT / WWC Certification Exam Preparation		3.0
• Level 2 WWT / WWC Certification Exam Preparation		3.0
• Operation & Maintenance of Wastewater Lagoons		0.6
• Reverse Osmosis Treatment		0.6
• Understanding Chloramination		0.3
• Understanding Regulations		0.5
• Water Sampling and Analysis Workshop		0.6
• Writing SOPs and ERPs for Water and Wastewater Utilities		0.6

## Agriculture & Agri-Food Canada through the Federal Interdepartmental Training Board [http://www.waterqualitytraining.ca/waterQuality101\\_e.php](http://www.waterqualitytraining.ca/waterQuality101_e.php)

• Water Quality 101: Potable Water Micro-System Fundamentals	Online	0.5
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## Alberta Construction Safety Association

• Flagger Training		0.7
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## Alberta ESRD <https://albertawater.com/environment-and-sustainable-resource-development>

• IC-100 Introduction to Incident Command System		0.3
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## Alberta Water & Wastewater Operators Association (AWWOA) <http://www.awwoa.ab.ca/>

• Pumps: Theory, Operation and Maintenance (home study)		3.0
• Small Wastewater System Operations (home study)		0.6
• Process Control Instrumentation Basics	Dec 10-11, 2013	1.2
• Water Treatment Plant Operations (correspondence)		15.0
• Mathematics		9.0

## American Public Works Association (APWA) <http://www.apwa.net/>

• APWA Conference 2011 – Denver Colorado	Sep 18-21, 2011	0.8
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## American Water Works Association (AWWA) <https://www.awwa.org/>

• AWWA Webcasts (any)	Contact MOE	??
• AWWA Seminar on Demand		??
• Water Treatment Operator Level 1	variable	6.0

• Water Treatment Operator Level 2	variable	6.0
• Water Treatment Operator Level 3	variable	6.0
• Advanced Disinfection of Pipelines and Storage Facilities		0.2
• Applied Mathematics		0.3
• Asbestos (General Industry)		0.1
• Backflow Prevention & Cross Connection Control		0.2
• Basic Mathematics		0.7
• Coagulation, Flocculation and Sedimentation Basics		0.3
• Cross Connection Control Specialist Course		3.0
• Disinfection Basics		0.3
• Disinfection of Pipelines and Storage Facilities		0.2
• Distribution Service to Customers		0.3
• Distribution System Materials and Equipment		0.3
• Electrical Safety (Construction)		0.1
• Emergency Response Planning		0.2
• Excavations (Construction)		0.1
• Filtration Basics		0.3
• Financial Management Cost of Service Rate Making		0.5
• Fire Hydrant Operations & Maintenance		0.3
• Flushing and Bacteriological Sampling		0.2
• Fundamentals of Chemistry for Water Professionals		0.8
• GeoScience in Water Aquifers		0.2
• Hearing Conservation		0.1
• Hydraulics		0.8
• Introduction to OSHA		0.1
• Lockout / Tagout		0.1
• Materials Handling (Construction)		0.1
• Optimizing Performance Using Turbidity Data		0.3
• Permit-Required Confined Spaces		0.1
• Personal Protective Equipment (Construction)		0.1
• Pipeline Repair		0.3
• Pollution Prevention		0.1
• Pump Maintenance		0.2
• PVC Pipe in the Field		0.2
• Respiratory Protection		0.1
• Scaffolds (Construction)		0.1
• Security Planning for Drinking Water Systems: An Operational Approach		0.2
• Spill Prevention Control and Countermeasure (SPCC)		0.3
• Storm Water Pollution Prevention		0.1
• Water 101		0.5
• Watermain Installation		0.3
• Water System Mechanical Equipment		0.2
• EL148 Introduction to the Utility		0.5
• EL149 Basic Supervision		0.5
• EL151 Management Responsibilities		0.5
• EL152 Management Styles		0.5
• EL154 Physical Infrastructure Management Program		0.5
• EL155 Water Supply and Demand Management	online	0.5
• EL156 Establishing Leadership in the Organization		0.5
• EL157 Planning the Utility		0.5
• EL158 Building the Utility		0.5
• EL159 Financing the Utility		0.5
• EL178 Revised Total Coliform Rule		0.4
• EL208 Fire Hydrant Basics for Pressurized Water Systems		0.1
• EL209 Sewer Collection Piping Systems and Appurtenances		0.2

• EL211 Flushing and Bacteriological Testing	online	0.2
• EL227 Backflow I (Prevention and Cross-Connection Control)	online	0.2
• EL228 Basic Math I and Chemistry I	online	0.2
• EL229 Membrane Processes		0.2
• EL252 Water Compliance and Enforcement		0.2
• EL260 Free Course: Facilitating Compliance with America's Water Infrastructure Act		0.1
• EL261 Security Practices for Operations and Management	online	0.1
• EL262 Risk and Resilience of Water and Wastewater Systems		0.4
• EL263 Emergency Planning	online	0.2
• EL264 Cybersecurity in the Water Sector		0.2
• EL285 Corrosion Control Theory & Treatment Options		0.2
• EL297 Drought Preparedness and Response: Developing a Water Shortage Plan		0.3
• Be a Trusted Source: How to Handle Communication Challenges During COVID-19	webinar	0.2
• Coagulation & Oxidation Innovations: Using Machine Learning & Online Technology to Improve Your Process		0.2
• Low-Cost Pipe Condition Assessment with Hydrant Testing	online	0.1
• Source Water Protection	webinar	0.1
• Machine-Intelligent Non-Acoustic Leak Detection	webinar	0.1
• Using AMI Data in Hydraulic Modeling	online	0.3

### Anderson Pump House <http://www.andersonpumphouse.com/>

• Metering Pumps		0.3
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### Anthratech Western Inc. (AWI) [www.awifilter.com](http://www.awifilter.com)

• Filter Surveillance		0.65
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### Areva Resources Canada Inc.

• Lockout/Tagout		0.4
• Confined Space Entry		0.4
• Personal Fall Protection		0.4

### Armour Safety Inc. <http://armoursafety.com/>

• Fall Protection		0.6
• Confined Space Rescue w Safety, Spark Watch & SCBA, Level 3		0.8
• Standard First Aid / CPR	Red Cross	1.6
• Standard First Aid / CPR Recertification	Red Cross	0.8
• Transportation of Dangerous Goods		0.4
• – Workplace Hazardous Materials Information System		0.3
• Powered Mobile/Heavy Equipment Safety Training (OH&S)		0.7
• H2S Awareness		0.4
• Ground Disturbance Level 2 – For Supervisors		0.5
• H2S Alive ENFORM		0.7
• Rigging and Hoisting		0.7
• Global Ground Disturbance 2	various	0.7
• Confined Space Entry (only)	various	0.6
• Confined Space Entry & Rescue	various	0.8
• Asbestos Awareness	various	0.3

## Assembly of First Nations (AFN) <http://www.afn.ca/>

• Water and Wastewater Infrastructure in First Nations Communities: Past, Present and Future		0.1
• 1a – Capacity and Training: CRTP		0.1
• 1b – Contaminants in Water		
• 1c – Innovative Technologies and Approaches: Case Studies		
• 2a – Atlantic Perspective – Presentation on the importance of information collection:		0.1
• 2b – Procedure for Addressing Drinking Water Advisories in First Nation Communities South of 60°		
• 3a – Community Based Water Monitors		0.1
• 3b – First Nation – Municipal Community Infrastructure Partnership Program (CIPP)		
• 4a – Environment Canada - Wastewater Systems Effluent Regs		0.1
• 4b – Innovative Technologies and Approaches: Case Studies		
• 4c – Guidelines for the review of Water and Wastewater Project Proposals in First Nation Communities South of 60°		
• 5a – Fraser River Basin Council		0.1
• 5b – Capacity and Training: CRTP		
• 5c – Innovative and Small systems Water Technology research - Interactive session		
• 6a – National Science Foundation (NSF 60/61) Standards		0.1
• 6b – How to manage risk – Operating within Protocols		
• 7a – Integrated Water Safety Risk Assessments and Asset Management Solutions in First Nation Communities		0.1
• 7b – Source Water Protection Planning		
• 7c – Collaboration with the Walkerton Clean Water Centre		
• 8a – Introduction to cyanobacteria, their toxins, challenges in water treatment and management options.		0.1
• 8b – The long term benefits of regular sampling and monitoring		
• Managing Drinking Water systems for FN Communities		0.7
• 5752 Fundamentals of Maintenance Management Systems		1.4
• 14338 Operate & Maintain Disinfection Systems		0.4
• 5753 Operation & Maintenance of Fire Hydrants		0.7
• 14337 Watershed Monitoring & Source Water Protection		0.4
• 8493 Emergency Response for FN Operators		0.7
• 3230 Record Keeping		0.6

## Associated Engineering <http://www.ae.ca/>

• Water & Wastewater Capacity Building Seminar – Toronto	Nov 1-3, 2012	1.0
• Northern Communities Water Treatment Seminar	Sept 2, 2015	0.3
• Confined Space Rescue Level 2		0.7
• Ground Disturbance 201 ABCGA Endorsed		0.8

## ATAP Infrastructure Management Ltd. <http://www.atap.ca/courses.html>

• Class 1 Water Treatment/Distribution	5 days	3.0
• Class 1 Wastewater Treatment/Collection	5 days	3.0
• Class 2 Water Treatment/Distribution	5 days	3.0
• Class 2 Wastewater Treatment/Collection	5 days	3.0
• Class 3 / 4 Water Treatment	5 days	3.0
• Class 3 / 4 Wastewater Treatment	5 days	3.0
• Class 3 / 4 Water Distribution/Wastewater Collection	5 days	3.0
• Class 1 Water Treatment / Distribution and Class 1 Wastewater Treatment / Collection	5 weeks	6.0



• Confined Space Entry		0.6
• Control Systems Troubleshooting Basics		0.6
• Filter Surveillance & Optimization (formerly Filter Maintenance & Surveillance)		0.6
• Gas Chlorination (must attend both days)		1.2
• Hypo-Chlorination & Feeder Maintenance		0.6
• Impact of Regulatory Changes for Operators		0.6
• Iron & Manganese Removal		0.6
• Jar Testing		0.6
• Lagoon Operation and Maintenance		0.6
• Membrane Filtration (class & practical)	2 days	1.2
• Membrane Filtration	1 day	0.6
• Water and Wastewater Foundations Course (previously titled; Operator Math & Science Preparatory Course, date changed November 6, 2014)	3 days	1.8
• Water Distribution System Maintenance		0.3
• Watermain Swabbing		0.6
Extended version with half day hands on		1.0
• Water & Wastewater Workers Safety		0.6
• Wastewater Collection Maintenance (formerly Fall Maintenance – Collection Systems)		0.6
• WHMIS		0.3
• Prince Albert Training Session	various	1.5
• Standard Operating Procedures, Contingency Plans & Emergency Planning	various	0.6
• Chloramination 101		0.3
• Sampling Techniques and Analysis for Water and Wastewater		0.3
• Hydrant Operation		0.3
• Hydrant Operation and Maintenance		0.6
• Hydrant Flow Testing	various	0.6
• Water Disinfection Techniques	various	0.6
• Water Distribution Level 1 and 2		4.2
• Wastewater Collection Level 1 and 2		4.2
• Math and Science Fundamentals (2 day)		1.4
• Biofiltration: Operation and Maintenance		0.7
• Math and Science Fundamentals		1.4
• Water Distribution Level 3 and 4		4.0
• Wastewater Collection Level 3 and 4		4.0
• Sampling Techniques & Analysis		0.6
• SARWP Half-Day Swabbing		0.3
• Gas Chlorination (One-Day) On-line or Classroom		0.6
• Job Hazard Analysis Workshop		0.3
• Pump & Valve Operation & Maintenance (SARWP)		0.7
• Pump & Valve Operation & Maintenance		0.3
• Potable Water Reservoir Design, Operation & Maintenance		0.6
• National Assoc of Sewer Services Companies Cert (NASSCO)		2.2
• Wastewater Collection Vol 1		1.8
• Wastewater Collection Vol 2		2.1
• Water Distribution Volume 1		2.1
• Working Through System Upgrades		0.6
• Lift Station Operation & Maintenance		0.6
• Water Distribution Math		1.2
• Wastewater Collection Math		1.2
• Wastewater Treatment Volume 1		2.4
• Wastewater Treatment Volume 2		3.0

## A2Z Safety & Training [www.a2zsafetyandtraining.ca/a2z-course-listings](http://www.a2zsafetyandtraining.ca/a2z-course-listings)

• Confined Space Entry, Rescue and Monitor		0.7
• Fall Protection Certification		0.7
• H2S Alive		0.7

## Auditor Training Online

• Internal Auditor Management Systems	online	1.6
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## Avin Water

• Operation and Maintenance of Biological and RO Systems		1.0
• Operation and Maintenance of Filtration and Greensand Systems		0.8

## BC Water & Waste Association (BCWWA)

• Water Treatment 1		4.0
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## Blackjack Holdings

• Ground Disturbance Level II		0.4
• Transportation of Dangerous Goods		0.4
• Fall Protection		0.4
• Basic Fire (Fire Awareness)		0.4

## Boots on the Ground Coaching [www.bootsonthegroundcoaching.com](http://www.bootsonthegroundcoaching.com)

• Tools for High Performing Leaders		2.1
• 4 Tools for High Performing Leaders		1.2
• Leading A High Performing Team		1.2
• Affirmation and Correction: 2 sides of the same coin		0.3
• Engaging Employees: Hearing their input and how to implement it in your workplace		0.3
• Effective Communication		0.3
• Controlling Your Time, Your Schedule and Your Priorities		0.3
• Execution: Making sure the important things get done every time		0.3
• Leading Productive Conflict		0.3
• How to Set and Measure Clear Expectations.03		0.3
• True Accountability Changes Results		0.3
• Leading Productive Change		0.3
• Leading a Multigenerational Team		0.3

## Brenntag Canada Inc.

• Chlorine Safety Awareness Seminar, Buffalo Pound WTP	Aug 22, 2012	0.3
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## California State University – Sacramento (CalState) <http://www.owp.csus.edu/>

• Water Treatment Plant Operation	Volume 1	9.0
• Water Treatment Plant Operation	Volume 2	9.0
• Water Distribution System Operation and Maintenance		9.0
• Small Water System Operation & Maintenance		9.0
• Wastewater Treatment: Facilities and Pre-treatment	WAT 601A	1.8
• Pre-Treatment Facility Inspection		9.0

• Small Water Systems – Wells		1.5
• Math Applications in Water Treatment		2.1
• Math Applications in Water Distribution		1.9
• Utility Management	Pre 2003	4.5
• Utility Management	Post 2003	2.0
• Managing for Success: Effective Utility Leadership		4.5
• Operation of Wastewater Treatment Plants	Volume 1	9.0
• Operation of Wastewater Treatment Plants	Volume 2	9.0
• Advanced Waste Treatment	Volume 1	9.0
• Operation & Maintenance of Wastewater Collection Systems	Volume 1	9.0
• Operation & Maintenance of Wastewater Collection Systems	Volume 2	9.0
• Small Wastewater System Operation & Maintenance	Volume 1	9.0
• Small Wastewater System Operation & Maintenance	Volume 2	9.0
• Industrial Waste Treatment	Volume 1	9.0
• Industrial Waste Treatment	Volume 2	9.0
• Safety, Beginning Treatment and Lagoon Systems		4.0
• Secondary Treatment		3.6
• Disinfection, Laboratory Procedures and Math		4.3
• Membrane Bioreactors		1.0
• Collection System Operation and Maintenance Training		0.6
• Collection Systems: Methods for Evaluation & Improving Performance		0.6
• Treatment of Metal Wastestreams		2.6
• Pretreatment Facility Inspection		9.0
• Pretreatment Facility Inspection Training Videos		0.6

## Cameco <http://www.cameco.com/>

• Confined Space Awareness		0.4
• Lockout / Tagout		0.3
• Respirator Fit Testing		0.2
• St. John Ambulance Emergency Course		0.8
• St. John Ambulance Standard Course		1.6
• St. John Ambulance Intermediate Course		2.0
• Fall Protection		0.4
• WHMIS – (Workplace Hazardous Materials Information System)		0.4
• Basic Rigging		1.0
• Respirator Fit Test		0.3
• Hazard Awareness NFPA 472 – McArthur River (Wilbur Hueger)		1.6
• Wastewater Collection & Treatment – McArthur River		0.5
• Potable Water Operation – Rabbit Lake		1.6
• Control of Hazardous Energy – McArthur River		0.3
• Job Hazard Analysis (JHA)		0.3
• MD Hearing Conservation		0.3
• CAM Electrical Safety – Nonelectrical Worker		0.1
• MD AWP (Aerial Work Platform)		0.8
• MD Overhead Crane, Hoisting & Rigging		0.8
• Level 1 Occupational Health Committee (OHC)		1.2
• TDG		0.3
• CAM Fire Extinguishers Portable		0.2
• MD Forklift		0.8

## CAN Safety Training & Consulting

• Aerial Lift Training		1.4
• Cargo Securement		0.4

• Confined Space Training Entry & Rescue		0.7
• Fall Protection		0.7
• Forklift Training		1.4
• Ground Disturbance		0.4
• Overhead Crane		0.7
• Payloader Training		1.3
• Rigging Training		0.7
• Skid Steer Training		1.3
• Truck Mounted Crane		0.7
• Trailer Towing & Cargo Securement		0.7

### Canada Safety Council (CSC)

• ATV Training Course – Moose Mountain Provincial Park	Oct 7, 2013	0.5
• Utility Vehicle Training Course –Moose Mountain Provincial Park	Oct 8, 2013	0.5
• Defensive Driving Course	May 22, 2015	0.3
• Utility Vehicle Training		0.5
• Snowmobile Operators Course		0.8

### Canadian Association for Laboratory Accreditation Inc. (CALA) <http://www.cala.ca/>

• 1000: Understanding ISO/IEC 17025	various	1.3
• 2000: Internal Auditor for ISO/IEC 17025	various	1.1
• 4300: Control Charting for Laboratories	various	0.6
• 4200: Internal Calibration for Laboratories	various	0.6

### Canadian Center for Occupational Health & Safety

• WHMIS 2015		0.4
• Fire Hydrant Basics for Pressurized Water Systems	online	0.1

### Canadian Safety Training

• Chlorine Safety		0.3
• Confined Space – Awareness Training		0.4
• WHMIS 2015		0.3

### Canadian Training Federation

• Chainsaw Safety		1.6
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### Canadian Water and Wastewater Association (CWWA) – NWWC

• CWWA – NWWC	Oct 25-28, 2015	1.5
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### Canwit Consulting Corp. <http://www.canwit.com/index.htm>

• WHMIS – Self Study Course	various	0.2
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### Capital Safety <http://www.capitalsafetytraining.com/>

• DBI/SALA Fall Protection General Awareness, BPWTP		0.4
• DBI/SALA Fall Protection equipment Inspection Training, BPWTP		0.4

## Carl Kot

• Operations & Maintenance of Current Plant		0.6
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## Cervus Equipment

• Skid Steer Safety Training		0.4
• Ff Work Platform Operator Safety Training		0.4
• Forklift Operator Safety Training		0.4

## Chase Operator Training Ltd <http://www.chaseot.com/>

• Skid Steer Operator Training		0.5
• Wheel Loader Operator Training		0.5
• Picker Truck Operator Training		0.5
• Backhoe Operator Training		0.5
• Excavator Operator Training		0.5

## Circuit Rider Trainers Professional Association <http://www.crtpa.com/>

• Disinfection Alternatives, Montreal	Sept 1, 2011	0.7
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## City of Estevan

• Service Line Applications & Tapping Seminar (Don Webb)	Apr 25, 2013	0.7
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## City of Lloydminster

• Crane Operations & Safety Training	March 2013	0.6
• Confined Space Pre-Entry, Entry and Basic Rescue	February 2014	0.6

## City of Moose Jaw

• City of Moose Jaw Safe Trenching and Excavating	May 2017	0.4
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## City of North Battleford

• Management and Supervision (AWWOA)	Nov 17-19, 2014	2.0
• Water Quality Sampler Orientation (AWWOA)	Nov 17-18, 2014	1.0
• Process Control Instrumentation – Intermediate (AWWOA)	Feb 18-19, 2015	1.2
• Chlorination Workshop (AWWOA)	Apr 27-29, 2015	2.0
• OSSA Fall Protection	Mar 5, 2016	0.6
• UVSwift12 II Operator Training		0.4

## City of Prince Albert <http://www.citypa.ca/>

• Water Distribution Class 1 – Optimize Consulting		1.1
• Wastewater Collection Class 1 – Optimize Consulting	Jun 21-24, 2010	1.1
• Water Distribution Class 2 – Optimize Consulting		1.1
• Water Treatment Class 4 – Optimize Consulting	Jan 27-28, 2011	1.6
• Wastewater Treatment Class 4 – Optimize Consulting	Dec 6-9, 2010	3.2
• Wastewater Treatment Class 3 – Optimize Consulting		3.2
• Wastewater Collection Class 1-3 Optimize Consulting	Dec 14-15, 2011	1.2
• Supervision for Safety	Feb 25 Mar 4, 18, 2014	0.7
• AWI Filter Surveillance Workshop	Feb 27, 2014	0.6
• Powered Mobile Equipment	May 6-7, 2014	1.4

• Fireman Certificate Course & Provincial Exam,		1.4
• Standard First Aid, CPR C, AED (Lifesaving Society)	Nov 4-5, 2014	1.6
• Actiflo Clarification Operation, Maintenance & Optimization Workshop (Veolia Water Solutions & Technologies Canada)	March 2015	0.6
• WHMIS 2015	various	0.4
• Fall Protection	various	0.5
• Flag Person	various	0.3
• Fit for Duty Manager Training		0.3
• Red Cross (Blended) Standard First Aid / CPR C		1.4

### City of Regina [www.regina.ca](http://www.regina.ca)

• Biological Nutrient Removal for Operators	Apr 26-27, 2012	1.2
• Fleet Training & Safety–Confined Space Training Entry & Rescue	2016	0.7
• Fleet Training & Safety – Overhead Crane	2016	0.7
• Fleet Training & Safety – Truck Mounted Crane	2016	0.6
• Fleet Training & Safety – Traffic Accommodation/Traffic Flagging	2016	0.4
• Fleet Training & Safety – Trailer Towing & Cargo Securement	2016	0.6
• Fleet Training & Safety – Fall Protection	2016	0.7
• Fleet Training & Safety – Ground Disturbance		0.4
• Fleet Training & Safety – Payloader Training		1.6
• Fleet Training & Safety – Rigging Training		0.8
• Fleet Training & Safety – Skid Steer Training		1.6
• Fleet Training & Safety – Aerial Lift Training		1.5
• Fleet Training & Safety – Asbestos Pipe Removal		0.4
• Fleet Training & Safety – Forklift Training		1.6

### City of Saskatoon [www.saskatoon.ca/](http://www.saskatoon.ca/)

• UV Disinfection Training Workshop, Ozonia	November 2009	0.4
• Traveling Water Screen Training Workshop, Siemens	June 16, 2010	0.3
• Troubleshooting of Centrifugal Pumps, Vaughan Company Inc.	June 9, 2010	0.4
• Arc Flash & Low Voltage Training	Sept 15-17, 2009	0.8
• Chlorine Gas Feed Equipment – Siemens Water Technologies	Nov 2-3, 2011	1.1
• Operator HMI Training – Hinz	July 16, 2012	0.3
• EIM Tec2000, Spartan Controls	Dec 12, 2012	0.7
• Asbestos Awareness (AC Pipe SOP), C. Davidson	various	0.2
• WHMIS 2015 (online) Danatec		0.3
• Incident Management System		0.2
• Municipal Project Management		3.2
• ICS 200 Basic Incident Command System		1.2
• ICS 300 Intermediate Command System		2.0
• Own Your Zone		0.4
• Equipment Training – Ditch Witch Trencher		1.5
• Equipment Training – Excavator		1.5
• Equipment Training – Forklift		1.5
• Equipment Training – Backhoe		1.5
• Equipment Training – Wheel Loader		1.5
• Equipment Training – Skid Steer		1.5
• Equipment Training – Sewer Flusher		1.5
• WHMIS 2015	online	0.2
• MELT (Mandatory Entry Level Training Class 1)		12.0
• Low-Cost Pipe Condition Assessment with Hydrant Testing	online	0.1
• Situational Leadership – Building Leaders		2.4
• Fire Flow Testing and Assessing Distribution System Health		0.15

## City of Swift Current

• Actiflo Training, John Meunier	Oct 25-26, 2011	1.0
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## ClearTech Industries Inc. <http://www.cleartech.ca/index.php>

• Safe Handling of Chlorine Gas, Maple Creek	July 6, 2011	0.6
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## CLOW Canada [www.clowcanada.com](http://www.clowcanada.com)

• The Benefits of Implementing a Fire Hydrant and Valve Maintenance Program		0.6
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## Contech Safety and Training Ltd <http://www.contechsafety.ca>

• Electrical Safety for Electrical/Non Electrical Workers within Water/Wastewater Facilities		1.1
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## CPWA

• Wastewater Collection Systems- The Good, The Bad, & The Very Ugly	online	0.6
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## Corix Water Products

• AWWA C504 Butterfly Valves and Actuators	various	0.6
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## Credenda Virtual High School & College (Water Tech Course)

• WWW101 Water Distribution 1		6.0
• WWW102 Water Treatment 1		8.0
• WWW103 Wastewater Collection Systems		6.0
• WWW104 Wastewater Treatment 1		9.0
• WWW110 Science and Electricity		4.0
• WWW112 Hydraulics and Blueprint Reading		5.0
• WWW115 Water Treatment Laboratory Analysis 1		1.6
• WWW140 Computer Software Applications		3.0
• WWW201 Water Distribution 2		6.0
• WWW202 Water Treatment 2		9.0
• WWW203 Support Systems		9.0
• WWW204 Wastewater Treatment 2		9.0
• WWW210 Introduction to Process Control		TBD
• WWW213 Wastewater Collection Systems		5.0
• WWW215 Water Treatment Laboratory Analysis 2		1.2
• WWW220 Wastewater Treatment Laboratory Analysis 2		1.2

## CSA / NASSCO (Garret Harvey)

• Visual Inspection of Sewer Pipe – CSA Plus 4012 with NASSCO PACP	March 2013	1.2
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## Cumberland College [www.cumberlandcollege.sk.ca](http://www.cumberlandcollege.sk.ca)

• Lagoon O & M, Nipawin	Oct 18, 2006	0.5
• Red Cross First Aid / CPR / AED	various	2.0
• Construction Safety Training Certificate	various	0.5

• WHMIS	various	0.3
• Confined Space Entry & Rescue	various	1.2
• Power Mobile Equipment Operator	various	0.7
• Fire Safety – Fire Extinguisher	various	0.7
• Confined Space Entry		0.7

**Danatec** [www.danatec.com](http://www.danatec.com)

• WHMIS 2015 (online)		0.3
• TDG Transportation of Dangerous Goods		0.3

**Dave Clark Water Treatment Consulting Inc.**

• Filtration Processes	various	0.2
• Basic Water Chemistry	various	0.2
• Water Analysis	various	0.2
• Water Plant Math	various	0.2
• Chemical Feed Pumps	various	0.2
• Chemically Assisted Filtration	various	0.2
• Jar Testing	various	0.6
• Douglas / Danielson Park Training Session	July 2-23, 2011	1.6

**David H. Paul Inc. Training – Correspondence** <http://www.dhptraining.com/dhp/>

<b>Reverse Osmosis Water Treatment Specialist Program</b>		
• Course – 1 Math, Chemistry, Biology	Book 145	3.0
• Course – 2 Reverse Osmosis	Book 146	3.0
• Course – 3 RO Troubleshooting / Cleaning	Book 147	3.0
• Reverse Osmosis Operation and Maintenance – Key Lake	June 1, 2010	0.7
• Reverse Osmosis Monitoring & Troubleshooting – Key Lake	June 2, 2010	0.7
• RO Operation – Hands On	various	0.7
• RO Chemical Cleaning – Hands On	various	0.7
• Advanced RO Chemical Cleaning – Hands On	various	0.7
• RO Analytical Troubleshooting – Hands On	various	0.7
• RO Mechanical Troubleshooting – Hands On	various	0.7
• Reverse Osmosis 101	various	0.7
• Monitoring & Troubleshooting of RO Units – Hands On	various	0.7
• Operation, Control & Maintenance of RO Pre-treatment	various	0.7
• Operation, Control & Maintenance of RO Units – Hands On	various	0.7
• Optimal Design & Operation of RO Systems	various	2.1
• Optimal Design & Operation of RO Systems (Revised 2 days)	various	1.4
• RO Monitoring and Troubleshooting OLC 118	online	1.2

**Dawn Noeth**

• Standard First Aid CPR AED Recertified Course		0.8
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**D. B. Safety Solutions Inc.**

• Train The Trainer		1.6
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**Delco Automation Inc**

• SIBROM Training Plan		1.0
• RO System Training		1.0



<b>Module</b>	<b>Time (minutes)</b>	<b>CEU</b>
• Chemical Safety	63	0.1
• First Aid	103	0.2
• Field Equipment Module I	103	0.2
• Field Equipment Module II	66	0.1
• Tool Safety	60	0.1
• Elevated Work	61	0.1
• Treatment Plant	107	0.2
• Field Operations Safety Module I	74	0.1
• Field Operations Safety Module II	60	0.1
• Field Operations Safety Module III	64	0.1
• Personal Protective Equipment	101	0.2
• Electrical Safety	67	0.1
• Shop Safety	72	0.1
• General Safety Module I	102	0.2
• General Safety Module II	70	0.1
• Water/Wastewater operations Safety Module	91	0.2
• Security and Disaster Preparedness Module	99	0.2
• Administrative Module	60	0.0

## **DMC Mining**

• Ammonia Emergency Response Training	Jun 20-21, 2017	1.2
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## **Echologics** [www.echologics.com](http://www.echologics.com)

• Water Leak Detection		1.5
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## **EDA Environmentals Ltd**

• Trojan Swift UV Operations		0.4
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## **Edmonton Waste Management Centre of Excellence**

• Anaerobic Digestion		1.2
• Biological Nutrient Removal		1.2
• Biosolids Management		1.2
• Dissolved Air Flotation		1.2
• Level ¾ Certification Preparation		1.3
• Membrane Treatment of Wastewater		1.2
• Primary Sludge Fermentation		1.0
• Pumps and Blowers		1.2
• Reading P&IDs		0.6
• Wastewater Disinfection		0.6

## **Edwards School of Business University of Saskatchewan**

• The Leadership Development Program		3.5
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## Energy Guard Water Technologies

• Reverse Osmosis – Operations & Maintenance		
• Basics of Membrane Treatment		0.6
• Advanced Membrane Treatment		0.6
• Softeners and Filter Performance		0.6

## Enform

• H2S Alive		0.6
• Confined Space 1 & 2		0.8
• WHMIS		0.3
• Oil Production Op. (Part. Credit for Pumps & CTRL Systems)	Mar 11-15, 2013	0.3

## Engineered Pipe Group

• Butt Fusion of HDPE (High Density Polyethylene)		0.4
• Electrofusion of HDPE (High Density Polyethylene)		0.4

## Environmental Leverage Inc.

• M004 How to Use a Microscope	May 12, 2017	0.4
• M001 Wastewater Microbiology	May 12, 2017	0.2
• M002 Wastewater Microbiology	May 12, 2017	0.25
• M003 Wastewater Microbiology	May 12, 2017	0.2
• WW01 Wastewater Basics	May 12, 2017	0.2
• WW02 Visual Troubleshooting	May 12, 2017	0.7

## EnviroWay <http://www.enviroway.net/>

• Wastewater Biology – Balance, PATTON and Bioaugmentation		0.3
• Drinking Water – Basic Water Analysis – Hach, Randy Hanson	May 9, 2012	0.4
• Enviro H2O Seminar – Michael King, Bob Cashion	Mar 1, 2013	0.4
• Enviro H2O Training Show	Feb 12, 2014	0.6

## EOCP

• Automatic Control Valve Application & Operation	Singer Valve	1.2
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## Epcor

• WIKT Conference		0.4
• Water Innovation and Knowledge Transfer Conference	virtual	0.3

## EPIC

• EPIC Risk Assessment of Contaminated Sites	Sept 24-25 2020	1.4
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## Evergreen Safety & Training

• Global Ground Disturbance Level 2	various	0.7
• OSSA Confined Space Entry & Monitor	various	0.7
• OSSA Fall Protection	various	0.7
• Enform H2S Alive	various	0.7

## FABCO Plastics Saskatoon Ltd.

• ASME B31.3 A328 Bonding Procedure & ASTM D2855 Solvent Cement Welding Process for PVC & CPVC	May 18, 2016	0.3
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## Fauser Energy

• Confined Space Entry Level 2	Apr 17, 2015	0.6
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## Federation of Saskatchewan First Nations (FSIN) & Touchwood Agency Tribal Council <http://www.fsin.com/>

• Water Monitoring & Building & Strengthening Skills	Apr 25-27, 2012	1.0
<b>Touchwood Agency Tribal Council</b>		
• Introduction to GPS, Cansel Canada	Oct 16-17, 2012	0.6
• Drinking Water – Basic Water Analysis – Hach	Oct 16-17, 2012	0.3
• Metering Pumps – Anderson Pump House	Oct 16-17, 2012	0.3
• Making Drinking Water Safe (RO 1)	Feb 10-11, 2014	1.0
• Drinking Water Treatment: The Why and How of Water Treatment	Oct 28-29, 2014	1.0
<b>Saskatoon Tribal Council Inc.</b>		
• St. John Ambulance First Aid & CPR	Dec 4-5, 2013	1.6
• St. John Ambulance WHMIS	Dec 4-5, 2013	0.3

## Federation of Sovereign Indigenous Nations (FSIN)

• Saskatchewan First Nations Water Operations Forum		1.3
• FSIN / AFN Water Legislation / O&M Policy Review		1.1

## File Hills Qu'Appelle Tribal Council <http://fhqtc.com>

• FHQ WTP Workshop		0.5
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## First Aid for Life Consulting & Training Inc.

• Cdn Red Cross Standard First Aid CPR C/AED		1.6
• Cdn Red Cross Standard First Aid CPR C/AED Recertification		0.8
• Cdn Red Cross Emergency First Aid / CPR / AED One Day		0.8
• Cdn Red Cross Emergency First Aid / CPR / AED Renewal		0.45

## Fred Pryor Seminars <http://www.pryor.com/site/default.aspx>

• Facilities Management		1.2
• Criticism and Discipline for Managers		0.6
• Managing with Assertive Confidence		0.6

## Global Training Center <http://globaltrainingcentre.com/>

• Global Ground Disturbance Level II		0.7
• Electrical Safety Training Systems for Non-Electrical Workers		0.6

## Great Plains College

• Confined Space		0.8
• Fall Protection	Sept 28, 2015	0.6
• Microsoft Excel 2016 – Level I		0.9
• Microsoft Excel 2016 – Level II		0.9
• Respect Group-Sheldon Kennedy & Wayne McNeil Group, Swift Current Campus	Dec 15, 2015 Jan 6, 2016	0.3

**Hach Canada** <http://www.hach.com>

• Introduction to Water & Disinfection & Turbidity	various	0.7
• Process Instrument Verification	various	0.6
• Coagulation & Oxidation Innovations: Using Machine Learning & Online Technology to Improve Your Process		0.2
• Practical Methods for Testing Water I		0.6

**Hayes Training & Development Group** <http://www.hayestdg.com/>

• Woodland Trainer Association Chainsaw Level I, II or III		0.7
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**Haztech** <http://www.haztechsafety.com/>

• Standard First Aid, includes CPR and AED	biological	1.6
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**Haztech Energy Corp**

• Asbestos Awareness		0.4
• Chlorine Safety		0.7
• Confined Space		0.7
• Fall Protection		0.7
• Hoisting & Rigging		0.7
• Load Securement		0.4
• Overhead Travelling Crane		0.7
• Positive Pressure Breathing Apparatus (SCBA)		0.4
• TDG		0.4

**Health Canada**

• Monitoring the Biological Stability of Drinking Water in Distribution Systems		0.2
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**Heavy Construction Safety Association of Sask. Inc. (HCSAS)** <http://www.hcsas.sk.ca/>

• Basic Fall Arrest		0.8
• Basic Hoisting and Rigging (includes International Hand Signals for Hoisting)		1.4
• Certified Classroom Training	PARWU	0.6
• Confined Space Rescue Level 1		0.4
• Confined Space Rescue Level 2		0.7
• Construction Safety Training System (CSTS)		0.4
• Ground Disturbance Level 1		0.4
• Ground Disturbance Level 2		0.7
• Powered Mobile Equipment, various locations and trainers	TBA	0.7
• Principles of Health & Safety Management	PARWU	0.3
• Roadbuilders Safety Training System (Modules 1 through 9)		0.6
• Safety Excellence Leadership	PARWU	0.9
• Transportation of Dangerous Goods		0.4
• WHMIS Train the Trainer	PARWU	0.3
• Confined Space Awareness	online	0.1
• Fall Protection Awareness	online	0.1

**Hest Safety Consulting** <http://hestsafety.ca/training/>

• Aerial Work Platform Awareness		0.5
• Confined Space Entry		0.8
• Fall Protection Awareness		0.6
• Occupational Health & Safety Committee Training Level 1		1.2
• Occupational Health & Safety Committee Training Level 2		1.2
• Powered Mobile Equipment Training		0.8
• Supervision and Safety Training		0.8
• WHMIS 2015		0.4

**Hetek Solutions Inc.** <https://www.hetek.com/>

• Pro-Active Operations & Maintenance Practices		0.7
• What's In That Pipe? Sources and Characteristics For Wastewater Collection and Treatment		1.2
• Operation and Maintenance of Wastewater Pumping Lift Stations and Force Mains		0.6
• Physical Sciences for Water and Wastewater		0.7
• Water Loss Management		0.6

**Hutch Ambulance Service**

• Standard First Aid / CPR C Recertification		0.7
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**Hydraulic Safety Authority of Canada Inc.** [www.hsac.ca](http://www.hsac.ca)

• Hydraulic Safety High Risk Management Level – Instructor Led		1.4
• Hydraulic Safety High Risk Management Level – E Learning		0.7

**IM Safety Service**

• Confined Space	various	0.7
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**Indian and Northern Affairs Canada** <http://www.ainc-inac.gc.ca/index-eng.asp>

• Protocol for Safe Drinking Water in First Nation Communities		0.7
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**Indiana State University** <http://www.indstate.edu/distance/>

• Basic Supervision		5.0
• Basic Management		5.0

**Integrated Water Systems Inc.**

• Membranes in Water Treatment		0.6
• MF & UF Operation – Membranes in Water Treatment		0.3
• NF & RO Membranes Operation		0.3
• Membranes in Water Treatment	online	0.6
• NF & RO Membranes Operation	online	0.3
• MF & UF Operation – Membranes in Water Treatment	online	0.3
• Ammonia and Chlorine in the Water	online	0.3

**Ironclad Safety / Eagle Spirit Safety Co. Ltd.**

• WHMIS	various/online	0.2
• TDG	various/online	0.4
• Confined Space	various/online	0.4

**J & T First AID Consulting Inc.**

• Red Cross Standard First AID CPR AED Recertification	various	0.8
• Red Cross Standard First AID CPR AED	various	1.6

**John Brooks Company Ltd.**

• Fundamentals of Pumping; Centrifugal Pump Basics, Hydraulics Applications & Troubleshooting		0.6
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**JS Industries**

• National Assoc of Sewer Service Companies Cert (NASSCO)		2.2
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**KPS Medic Ltd.**

• Red Cross First AID Instructor Course	Sep 26-28,2014 Feb 10-11,2015	3.2 3.2
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**Levelton Consultants Ltd.**

• Asbestos Awareness for Water/Wastewater Operators, Jim Bagley		0.6
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**Lifesaving Society**

• Aquatic Emergency Care with CPR-C & AED		2.4
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**Meadow Lake Tribal Council**

• Operation and Maintenance of Biological and RO Systems		1.0
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**Michigan State University** <http://www.msu.edu/>

• Supervisory Management in the Water / Wastewater Field		6.0
• Maintenance Management in the Water / Wastewater Field		6.0

**Ministry of Environment** <http://www.environment.gov.sk.ca/>

• Water Microbiology Workshop, Saskatoon	Mar 25, 2011	0.6
• Environmental Compliance Auditing	Apr 12-14 2016	1.6

**Ministry of Justice**

• Resolving Conflict Constructively, Saskatoon	Oct 4-6, 2016	1.9
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**Ministry of Parks, Culture & Sport – Safety & Training Unit**

• Level 1 Occupational Health Committee (OHC)	various	0.7
• Level 2 Occupational Health Committee (OHC)	various	0.7
• Supervision & Safety	various	0.7

• Fire Extinguisher Training	various	0.3
• Chainsaw Safety	various	1.6
• PCS WHMIS 2015 Theory & Site Specific		0.4

### MSA Certified Training Program

• Qualitative Respirator Fit Testing	Apr 10, 2013	0.2
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### MPE Engineering Ltd.

• SCADA Operations Training		0.3
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### Mueller Canada

• Hydrant Training	May 31, 2016	0.5
• Service Line Applications & Tapping-Estevan/Saskatoon-SWWA	Apr 25-26, 2017	0.6
• Mueller Water Products Training		0.5
• Mueller Hydrant, Machine and Tool Course		0.4
• Water Leak Detection		1.5
• Hydrant Valve and Service Brass Training Mueller		0.3
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### Municipal Utilities Central Ltd.

• Membrane Treatment Process WTP Operator Orientation		0.7
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### Nalco Water

• Analytical Field Testing		0.1
• Fundamentals of Water		0.4
• Reverse Osmosis 101		0.1
• Safe Chemical Handling		0.1
• Water Safety		0.1

### Neptune

• Improving Utility Operation	webinar	0.1
• Installation Best Practices Webinar	webinar	0.1
• Meter Testing Overview Webinar	webinar	0.1
• Migration from On-Premise to Cloud	webinar	0.1
• RF 101 Webinar	webinar	0.1

### NexLev Solutions

• Business & Project Management Framework	various	1.3
• Project Management Professional Course	Mar 17-18,2015	1.3
• Wastewater Treatment and Collection 1		3.0
• Wastewater Treatment and Collection 2 and 3		4.4

### North American Society for Trenchless Technology (NASTT)

• NASTT's Laterals Good Practices Course		0.4
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### Northern Lakes College

• Level 1 Water & Wastewater Certification Preparation Live On-Line		3.0
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## Northern Strands

• Below the Hook Rigging		0.7
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## North West Fire

• Fire Fighter Personal Protective Equipment		1.3
• Ground Ladders		0.9
• Hazardous Materials		1.0
• Portable Fire Extinguishers		0.4
• Ropes and Knots		0.7
• Water Supply		0.4

## North West Regional College <https://northwestcollege.ca>

• Fireman's Certificate Prep Course	various	6.0
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## NOVA – Online Training and Development

• Basic Microbiological Concepts		0.6
• Cross Connection Control		0.6
• Disinfection of Watermains and Storage Facilities		0.6
• Groundwater Our Most Valuable Resource		0.7
• Monitoring and Sampling		0.5
• Water Quality Complaint Investigation		0.6
• CT Disinfection		0.3
• Water Quality Complaint Investigation		0.6
• Keeping Distribution Water Safe From Microbial Contamination		0.4
• Water System Security		0.3
• Source Protection Initiatives		0.4

## Nutrien

• Basic Fire Extinguisher		0.3
• Centrifugal Pumps Parts 1 and 2		0.3
• Water Treatment; Water for Plant Systems Part 1 and 2		0.4
• Pumps: Fundamentals of Centrifugal Types		0.2
• Centrifugal Pumps		0.1
• T1-NTR-ESTS for Non-Electrical Worker		0.1
• T1-NTR-Confined Space Awareness / Confined Space Entry / Fundamentals of Gas Detection		0.3

## Occupational Health and Safety

• Supervision and Safety		0.7
• OH&S Ready to Work, Energy Training Institute		0.2
• OH&S Safe Operation of Forklifts		1.2
• OH&S Powered Mobile Equipment, various dates and trainers	various	0.7
• Level 1 OHS Training		1.0
• Level 1 OHC Training	PARWU	1.0

## Optimize Consulting <https://www.optimizeconsulting.ca>

• Water Distribution Class 1 – Optimize Consulting		1.1
• Wastewater Collection Class 1 – Optimize Consulting	June 21-24,2010	1.1
• Water Distribution Class 2 – Optimize Consulting		1.1
• Water Treatment Class 4 – Optimize Consulting	Jan 27-28, 2011	1.6



• Wastewater Treatment Class 4 – Optimize Consulting	Dec 6-9, 2010	3.2
• Wastewater Treatment Class 3 – Optimize Consulting	Nov 21-24, 2011	3.2
• Wastewater Collection Class 1-3 Optimize Consulting	Dec 13-15, 2011	1.2

## Outback Renewal Candle Lake

• Scissor Lift – Outback Renewal Candle Lake	Aug 7-8, 2014	1.2
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## Pacific Flow Control

• Hot Taps Line Stops Freezing Valve Inserts – A Comprehensive Look at the Technologies		0.3
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## Pacific Medical Training

• Basic Life Support + First Aid – BLS (CPR-C)		0.8
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## Parkland College <http://www.parklandcollege.sk.ca/>

• Fall Protection		0.7
• First Aid / CPR 'A'		1.6
• WHMIS		0.4
• Confined Space		1.0
• H2S Alive		0.7
• Ground Disturbance		0.7
• Supervision & Safety		0.6
• Transportation of Dangerous Goods		0.4
• Occupational Health Committee Level 1		0.6
• PowerPoint		1.2
• Microsoft Excel Level 2		1.8
• Computer Basics		1.8
• Microsoft Excel Level 1		1.8
• Microsoft Word Level 1		1.8
• Microsoft Word 2010 Level 2		1.8
• Microsoft Word 2010 Core Skills		2.5
• Microsoft Excel Core Skills		2.5
• Fundamentals of Project Management (Project Mgmt Cert)		1.3
• Project Planning & Scheduling (Project Mgmt Cert)		1.3
• Cost & Procurement Management (Project Mgmt Cert)		1.3
• Project Management Practicum (Project Mgmt Cert)		1.3
• Project Quality Management (Project Mgmt Cert)		1.3
• Project Risk Management (Project Mgmt Cert)		1.3
• Human Resource & Communication Mgmt (Project Mgmt Cert)		1.3
• Class 1 Water Treatment		1.4
• Class 1 Water Distribution		1.4
• Math Refresher for Water Operators		0.7
• Leadership Skills for Front Line Managers		
• Module 1: Supervision		1.2
• Module 2: How to Work with People		1.2
• Module 3: How to Get the Work Out		1.2
• Module 4: Employee Selection & Training		1.2
• Mental Health First Aid – BASIC		1.0
• Virtual Mental Health First Aid	online	0.8
• Indigenous Awareness Training – Level 1		0.65
• Fireman Boiler Operator Prep Course		2.0
• Red Cross First Aid Recertification		0.7

## PEMAC Asset Management Association of Canada

• Maintenance Management Professional (MMP)		1.5
• Module 1: An Integrated Strategy for Maintenance Mgmt		3.0
• Module 2: Production & Operations Management for the Maintenance Manager		3.0
• Module 3: Human Resources for the Maintenance Manager		3.0
• Module 4: Financial Mgmt for the Maintenance Manager		3.0
• Module 5: Developing & Implementing Maintenance Tactics		3.0
• Module 6: Maintenance Work Management		3.0
• Module 7: Computerized Maintenance Management Systems (CMMS)		3.0
• Module 8: Capstone Course		3.0

## Pine Tree Management Skills [www.managementskills.ca](http://www.managementskills.ca)

• Leadership Skills for Front Line Managers		1.2
• Module 1: Supervision		1.2
• Module 2: How to Work with People		1.2
• Module 3: How to Get the Work Out		1.2
• Module 4: Employee Selection & Training		1.2

## Portage College <http://www.portagecollege.ca/>

• WWWO 101 Potable and Wastewater Systems Management (classroom)		2.5
• WWWO 101 Potable and Wastewater Systems Management (online)		1.8
• Air brakes		0
• Aerial Platform		0.3
• Confined Space (Entry and Monitor)		0.5
• Defensive Driving		0
• Fall Protection (OSSA approved)		0.6
• Fall Protection		0.6
• Standard First Aid / CPR C		1.2
• Emergency First Aid / CPR A		0.6
• Flag Person		0.3
• Forklift		0.3
• Ground Disturbance – Level 2		0.6
• H2S Alive		0.5
• Skid Steer – Operator		0.4
• TDG / WHMIS		0.6
• Construction Safety Training System (online)		0.6
• Construction Safety Training System – upgrade (online)		0.4
• Road Builders Safety Training System (online)		0.3
• TDG (online)		0.3
• WHMIS (online)		0.3

## Potash Corporation of Saskatchewan <http://www.potashcorp.com/>

• Emergency First Aid – Lanigan	various	1.0
• Confined Space Training – Lanigan Mine Site		1.0
• Hydrogen Sulphide – Lanigan Mine Site	various	1.0

## Prairie North Health Region

• Asbestos Awareness & Glove-Bag Removal Process, Bersch & Associates) North Battleford	Jun 18-19,2014	0.9
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## Prince Albert Grand Council

• Delco Water Biological Filtration	Nov 15, 2015	0.4
• Biological Membrane Systems – Successful Operation & Maintenance	Nov 15, 2015	0.3
• Improving Drinking Water in First Nation Communities	Nov 18, 2015	0.6
• Water Monitoring: Building and Strengthening Skills 2016(PAGC, Health Canada, Fill Hills Qu'Appelle Tribal Council)	May 4-5 2016 June 2016	1.0

## Proactive

• 40 hour Overhead Crane Competent Operator	various	3.5
• 8 hour Overhead Crane Competent Operator	various	0.7
• Aerial Work Platform Competent Operator	various	1.4
• Forklift Competent Operator	various	1.4
• Fall Protection	various	0.7
• Confined Space	various	0.7
• Skid Steer Competent Operator	various	1.4
• Fall Protection	July 6, 2015	0.6

## Progressive Sealing

• Introduction to Mechanical Seals and Packing		0.6
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## Pulse Safety Services Ltd.

• WHMIS & H2S		1.0
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## React & Respond First Aid

• Red Cross Standard First Aid/CPR/AED Blended/Recertification		0.6
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## RCM Training and Consulting Ltd.

• Fall Protection		0.7
• Powered Mobile Equipment		1.4

## RM Frenchman Butte

• Standard First Aid CPR AED Recertified Course		0.8
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## RM of Fillmore

• Global Ground Disturbance Level II	June 17, 2021	0.7
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## Regina Safety Consulting & Training

• Asbestos Awareness		0.4
• Chlorine Safety		0.7
• Confined Space		0.7
• Fall Protection		0.7
• Hoisting & Rigging		0.7
• Load Securement		0.4
• Overhead Travelling Crane		0.7
• Positive Pressure Breathing Apparatus (SCBA)		0.4
• TDG		0.4

## Safe Drinking Water Team, Touchwood Agency Tribal Council, the Safe Water for Health Research Team (U of S)

• First Nation Public Water System Reporting		0.3
• Stream 1 (Technical Stream) of the Indigenous Water Forum – Drinking Water Treatment Process and Policies		0.5

## Safety Association of Saskatchewan Manufacturers (SASM) <http://sasm.ca>

• Confined Space		0.4
• Fall Protection		0.5
• Job Hazard Analysis		0.5
• Lockout / Tagout Program (on-line)		0.4
• Safety Essentials for Supervisors, BPWTP	various	1.2

## Safety Courses Canada

• GHS & WHMIS 2015		0.2
• Confined Space Awareness Training		0.2

## Safety First

• Chainsaw Safety		0.2
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## Safety Services Manitoba <http://safety-services-manitoba.ca/>

• WHMIS – Flin Flon	Apr 25-29, 2011	0.3
• Fall Protection – Flin Flon	Apr 25-29, 2011	0.6
• Confined Space Refresher / Awareness – Flin Flon	Apr 25-29, 2011	0.6
• Respirator Fit Testing	Apr 25-29, 2011	N/A

## SANC: Sask. Association of Norther Communities (New North Conference)

<https://www.newnorthsask.org>

• Water/Landfill Workshop, La Ronge	Apr 10-11, 2002	1.2
• Drinking Water, Wastewater & Solid Waste, La Ronge	Apr 1–3, 2003	0.9
• Northern Communities Water Works Workshop: La Ronge	Apr 21-23, 2004	1.0
<b>SANC: Northern Environmental Workshop: La Ronge</b>	Apr 6-8, 2005	0.3
• Basic Math Workshop		0.3
• Jar Testing Workshop		0.3
• Basic Chemistry Workshop		0.3
<b>SANC: Water Works Workshop, La Ronge</b>	Apr 5-7, 2006	
• Principles & Practices of Dr. Water Chlorination		0.3
• Basic Safety for Operators		0.3
• Distribution System O & M, AWWA Webcast		0.3
<b>SANC: Water Works Workshop, La Ronge</b>	Apr 07-09, 2007	
• UV Disinfection (Calgon)		0.6
• Watermain Swabbing (ATAP)		0.6
• Basic Slow Sand Filters (MS Filter)		0.3
• Membrane Filtration (Puretech)		0.3
• Portable & On-line Instrument Calibration (ClearTech)		0.3
<b>SANC: New North Water Workshop</b>	Apr 18-19, 2008	
• Iron and Manganese Removal		0.6
• Lagoon Operations		0.6
• Chemical Pump Maintenance – Clear Tech		0.4
• Water & Wastewater Worker Safety – ATAP		0.4
<b>SANC: Northern Water Conference</b>	Apr 27-29, 2009	

• Principles & Practices of Chlorination / Chloramination, Cleartech		0.3
• From Sampling to Report – SRC		0.3
• Jar Testing, ATAP		0.7
• Distribution System Maintenance and Leak Detection, Al Turner		0.7
<b>SANC: Northern Water Conference</b>	Apr 14-16, 2010	
• Hypochlorination, ATAP		0.7
• Disinfection Alternatives, Metcon		0.7
• Filter and Instrumentation Optimization, ClearTech		0.3
• MOE Regulations and Operator Duties, SMOE		0.3
<b>SANC: Northern Water Conference</b>	Apr 18-20, 2011	
• MOE Regulations and Operator Duties, SMOE		0.3
• Greensand Filters – S, Dobrowny		0.3
• Lagoon Operation & Maintenance – ATAP		0.7
• Chemical Pump Maintenance & Calibration – ClearTech		0.4
• Chlorination, ClearTech		0.4
<b>SANC: Northern Water Conference</b>	Apr 17-19, 2013	
• Metering Pumps, APH		0.3
• Drinking Water: Basic Water Analysis (Randy Hanson)		0.4
• Wastewater Collection Maintenance (ATAP)		0.6
<b>SANC: Northern Water Conference</b>	April 2014	
• From Sampling to Report – SRC		0.3
• Standard Operating Procedures, Contingency Plans & Emergency Planning – ATAP		0.6
• Microbial Maintenance – Enviroway		0.3
<b>SANC: Northern Water Conference</b>	Apr 22-23, 2015	
2015 New North Waterworks Workshop CEU (an operator may only receive either individual workshop CEU's or the overall conference CEU, not a combination of both.)		1.0
• Maintenance for Submersible Pumps and Station Automation Systems – Xylem		0.3
• Jar Testing – Delco Water (Kelly Franks)		0.3
• Potable Water Reservoir Design, Operation & Maintenance		0.6
<b>SANC: New North Water Conference</b>	Apr 27- 28, 2016	
2016 New North Waterworks Workshop CEU (an operator may only receive either individual workshop CEU's or the overall conference CEU, not a combination of both.)		1.0
• Water & Wastewater Operator Math Course		0.3
• Water & Wastewater Operator Safety Course		0.3
• Water Disinfection Techniques		0.6
<b>SANC: New North Water Conference</b>	Apr 11-12, 2017	
2017 New North Waterworks Workshop CEU (an operator may only receive either individual workshop CEU's or the overall conference CEU, not a combination of both.)		1.0
• Water Works & Sewage Works Permittee Responsibilities		0.3
• Control Systems Troubleshooting		0.4
• Responsibilities of Municipal Authorities for Water/Sewage Works		0.3
<b>SANC: New North Water Conference</b>	Apr 17-18, 2018	
2017 New North Waterworks Workshop CEU (an operator may only receive either individual workshop CEU's or the overall conference CEU, not a combination of both.)		1.0
SANC: New North Water Conference	Apr 10-11, 2019	1.0
SANC: New North Water Conference	Apr 29-30, 2020	1.2

## Saskatchewan Association of Rural Water Pipelines (SARWP)

<http://sarwp.sasktelwebhosting.com/>

• On-Line Chlorine Analysers & Chlorination, Saskatoon	Dec 6, 2006	0.3
• Principles & Practices of Drinking Water Chlorination, Saskatoon	Dec 6, 2006	0.3
• Control Systems Trouble-shooting and Maintenance, Stantec	Dec 1, 2008	0.6
• Cross Control Connection	Dec 2009	0.6
• High Density Polyethylene (HDPE) Pipe Fusion	Dec 2010	0.6
• Distribution System Maintenance – S. Dobrowny	Dec 2011	0.6
• Pump & Valve Operation & Maintenance		0.7

## Saskatchewan Adult Basic Education Association (SABEA)

• Using Technology Science 30 Curriculum & Activities		0.5
• Govt's Water Regulations Standards & Licensing Bylaws & Planning RE: Water		1.0
• Math Gr 12 & Science Gr 12		0.5

## Saskatchewan Construction Safety Association (SCSA)

<http://www.scsaonline.ca/>

• Frame Scaffolding Awareness Training		0.6
• WHMIS	various	0.3
• Safety Construction Orientation Training (+ – SCSA)	online	0.4
• Confined Space & Respiratory Protection Awareness		0.6
• Safety Auditor Training		1.3
• Fall Protection		0.6
• Safety Management		0.6
• Leadership for Safety Excellence		1.3
• Hoisting and Rigging Safety Awareness		1.3
• Basic Training Techniques		1.0

## Saskatchewan First Nations Water Association Inc.

• Source Water Protection Workshop		0.5
• Biofiltration: Operation and Maintenance		0.7
• Math: - Converting Temperatures and Chlorine Demand - Decimals, Percentages, Chemical Requirements & Concentration - Weight of Water, Averages, and Acceleration Due to Gravity - Areas of Circles, Circumferences of Circles and Volumes of Cylinders - Areas of Rectangles and Volumes of Rectangular Prisms		0.1
• Introduction to Source Water Protection Planning in First Nations	online	0.1
• Introduction to Source Water Protection Planning in First Nations	webinar	0.1
• Source Water Protection in First Nations: Introduction to SWP Planning and Decommissioning Abandoned Water Wells	online	0.3
• Source Water Protection in First Nations: Decommissioning Abandoned Water Wells	online	0.2
• Manganese in Drinking Water: Exposure, Guidelines and Treatment Processes	online	0.3
• Drinking Water Regulations and Water Quality Standards for SK First Nations	online	0.3

## Saskatchewan First Nations Safety Association (SFNSA)

• Confined Space		0.7
• TDG		0.4
• WHMIS		0.4

## Saskatchewan Groundwater Association

• Operational Stages of a Well		0.3
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## Saskatchewan Ministry of Government Relations

• Basic Emergency Management – Melfort	2 days	1.2
• Emergency Operations Centre – Melfort	2 days	1.6

## Saskatchewan Onsite Wastewater Management Association

• Onsite Wastewater System Education Days	Apr 4, 2017	0.5
• Onsite Wastewater Systems Design Workshop	Apr 11, 2018	0.7

## Saskatchewan Polytechnic (formerly SIAST) <http://www.saskpolytech.ca/>

<b>SIAST Water / Wastewater Technician Program, effective Sept/06</b>		
• Water Treatment 1	WTER 130	8.0
• Water Treatment 2	WTER 131	8.0
• Water Distribution 1	WTER 132	4.5
• Water Distribution 2	WTER 133	4.5
• Wastewater Collection 1	WTER 134	6.0
• Wastewater Collection 2	WTER 135	6.0
• Wastewater Treatment 1	WTER 136	8.0
• Wastewater Treatment 2	WTER 137	8.0
• Water/Wastewater Laboratory 1	LABS 121	4.5
• Water/Wastewater Laboratory 2	LABS 122	4.5
• Business Communications 1	BCOM 120	4.8
• Business Communications 2	BCOM 121	6.4
• Graphical Communications 1	GRPH 123	3.0
• Graphical Communications 2	GRPH 124	4.5
• Technical Mathematics	MAT 124	4.5
• Basic Computer Operation	COMP 170	1.5
• Intro. To Microsoft Word	COMP 171	1.5
• Introduction to MS Excel 1	COMP 174	1.5
• Introduction to MS Excel 2	COMP 175	1.5
• Introduction to Microsoft Access 1	COMP 176	1.5
<b>SIAST Water &amp; Wastewater Operator Training</b>		
• Small Systems Water (3 days)		1.8
• Class 1 Water Treatment / Distribution Upgrade (3 days)		1.3
• Class 1 Water Treatment / Distribution (5 days)		2.7
• Class 2 Water Treatment / Distribution (3 days)		1.3
• Class 3/4 Water Treatment / Distribution (4 days)		1.8
• Small Systems Wastewater (3 days)		1.8
• Class 1 Wastewater Treatment / Collection Upgrade (3 days)		1.3
• Class 1 Wastewater Treatment / Collection (5 days)		2.7
• Class 2 Wastewater Treatment / Collection (4 days)		1.8
• Centrifugal Pumps		0.6
• Chemical Feed Pumps		0.6
• Cross Connection Control Awareness		0.6

• Distribution System Maintenance		0.6
• Gas Chlorine Systems		1.5
• Hydraulics for Operators		0.6
• Hypochlorination		0.6
• Lagoon Operation & Maintenance		0.6
• Power Engineering / Limited Fireman (ENGP 1800)		4.1
• Surface Water Treatment		1.2
• Water Analysis		0.6
• Small Seasonal Drinking Water Systems (Correspondence Course)		1.0
• Parks Management Pesticide Applicator (Pest 179)		1.5
• Ground Disturbance – various & online	SFTY 1818	0.6
• WHMIS 2015 – online	SFTY 1817	0.4
• Respiratory / Fit Testing Awareness – various & online	SFTY 1809	0.4
• Incident Investigations – various & online	SFTY1810	0.6
• Compressed Gas / Cylinder Awareness – various & online	SFTY 1811	0.4
• Confined Space Awareness – various & online	SFTY 1814	0.6
• Fall Protection – various	SFTY 1813	0.6
• Applied Certificate in Applied Project Management		16.8
• 120 Computer Aided Drafting 1	CADD 120	4.5
• Bio, Chem & Math Intro	WTER 1802	3.0
• Water Treatment and Distribution	WTER 1803	6.0
• Water Distribution	WTER 1600	2.0
• Wastewater Collection and Treatment	WTER 1804	6.0
• Water Distribution 2		2.0

**Saskatchewan Public Works Association (SPWA)** <http://saskatchewan.cpwa.net/>

<b>SPWA Conference February 26-28, 2008</b>		
• Emergency Planning		0.6
• Equipment Operator Training Workshop (WD and WWC only)		0.3
• Succession Planning, Documenting Standard Operating Procedure		0.1
• Climate Change – Corman Park Project		0.1
• InsituForm, Pipe Lining for Water and Sewer Pipes		0.1
• PSAB – Public Sector Accounting Board		0.1
• Sewer Use Policy / Bylaws		0.1
• Water and Wastewater Asset Management		0.1
<b>2009 Conference February 24 – 27, 2009 Saskatoon, SK</b>		
• Langenburg Reverse Osmosis Plant		0.1
• Building a Workplace Safety Culture		0.3
• Equipment Demonstration – City of Saskatoon		0.2
• Challenges Facing Public Works		0.1
• Safe Trenching/Confined Space Presentation		0.3
<b>2010 Conference February 24 – 25, 2010 Regina, SK</b>		
• Examining TEAM		0.075
• Putting TEAM in Safety		0.075
• Moose Jaw WWTP		0.075
• Saskatoon Water System		0.075
• PSAB/Asset Management and Water System Assessments in Northern Saskatchewan		0.075
• Harbour Landing Pumping Station		0.075
<b>2011 Conference February 24 – 25, 2011 Regina, SK</b>		
• Less Trench Alternative to Watermain Replacement		0.3
• The ABC's of Fire and Extinguishing		0.3
• Team Dynamics		0.2
<b>2011 SPWA Workshops</b>		
• Hydrant & Valve – Operation and Maintenance Workshop		0.7



• CPWA Public Works Safety Workshop	Feb 25, 2011	0.3
<b>2016 SPWA Conference February 23 – 25, 2016</b>		
Full Conference attendance (includes workshop & attendance to 4 of the 8 technical sessions)		1.0
• ATAP – Filter Surveillance & Optimization	Feb 25, 2016	0.6
• Public Works Safe		0.6
• Wastewater Collection Systems – The Good, The Bad & The Very Ugly	online	0.3
• Math for Public Works Workshop		0.3
• Hydrant & Gate Valve Maintenance Workshop		0.6

### Saskatchewan Safety Council

• Powered Mobile Equipment Operator	various	1.3
• Saskatchewan Safety Council Industrial Safety Seminar	various	1.1
• Ground Disturbance Level 2		0.8
• 45 <sup>th</sup> Annual Industrial Safety Seminar		1.0
• Skid Smart Collision Avoidance		0.7
• Industrial Safety Seminar	Feb 4-6, 2019	1.2

### Saskatchewan Urban Municipalities Association (SUMA)

• Strategic & Financial Planning for Municipalities SUMA Convention	Jan 1, 2015	0.5
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### Saskatchewan Water & Wastewater Association (SWWA)

<https://www.swwa.ca/training>

<b>SWWA Annual Conference, Saskatoon, November 1, 2000</b>		<b>CEU</b>
• Confined Spaces		0.3
• Chemical Solution Feeders		0.6
• Pump O & M		0.3
• Aquifer Protection		0.3
<b>SWWA Workshops, 2001</b>		
• Pumps & Wells, IWS, Yorkton,	Feb 7, 2001	0.5
• Filter Surveillance, AWI, Melfort	Apr 24-25, 2001	1.4
• Iron & Manganese Removal, Moose Jaw	Sept 12, 2001	0.6
<b>SWWA Annual Conference, November, 2001</b>		
• OH&S Supervision	Nov 1, 2001	0.3
• Aquifer Protection and Management	Nov 1, 2001	0.3
• Principles of Chlorination	Nov 1, 2001	0.3
• Control of BioFouling BOD, BARTS and Well Rehabilitation	Nov 1, 2001	0.3
• Safe Trenching	Nov 1, 2001	0.3
• Filter Monitoring and Optimization	Nov 1, 2001	0.3
<b>SWWA Workshops, 2002</b>		
• Mathematics, Prince Albert	Jan 16, 2002	0.5
• Mathematics, Fort Qu'Appelle	Jan 17, 2002	0.5
Sewage Pumps, ITT		
• Kindersley	Mar 11-12, 2002	1.4
• Prince Albert	Mar 14-15, 2002	1.4
Basic Municipal Operations		
• Melfort	Mar 18-19, 2002	1.4
• Swift Current	Mar 21-22, 2002	1.4
Filtration Workshop, AWI		
• Estevan	Apr 15-16, 2002	1.2
• Saskatoon	Apr 18-19, 2002	1.2

<b>SWWA Annual Conference, Saskatoon, November 20, 2002</b>		
• Confined Space Entry		0.3
• Mechanical Water Meter O & M		0.3
• SCADA for Dummies		0.3
• Vacuum Excavation		0.3
<b>SWWA Workshops, 2003</b>		
• Confined Spaces, Melville	Jan 21-22, 2003	1.6
• Organics Control, North Battleford	Mar 12, 2003	0.8
• Lagoon Maintenance, Wynyard	Apr 23, 2003	0.5
• Valve & Hydrant O & M, Mueller, Humboldt	Apr 30, 2003	0.5
• Water Regulations, Sask. Environment, Watrous	June 6, 2003	0.5
<b>SWWA Annual Conference, Saskatoon, November 2003</b>		
• Math for Operators, Kelly Franks, ClearTech		0.3
• WWT – Basics to Advanced, Doug Moisuk, Regina		0.3
• Calibrating Test Equipment, Andre Lemoine, Hach		0.3
• Filtration Systems – Then & Now, Dave Clark Consulting Inc		0.3
• AWWA Teleconference: Utility Case Studies	Nov 6, 2003	0.3
<b>SWWA Workshops, 2004</b>		
• Math for Operators, Sask. Environment: Meadow Lake	Jan 14, 2004	0.3
Water Quality Emergency Planning, Sask. Environment-		
• Melfort	Jan 28, 2004	0.3
• Weyburn	Feb 4, 2004	0.3
• Lagoon O & M, Sask. Environment: Swift Current	March 2004	0.3
Calibrating Electronic Test Equipment, Clear Tech		
• Indian Head	May 3, 2004	0.3
• Shaunavon	May 6, 2004	0.3
• Tisdale	May 11, 2004	0.3
• North Battleford	May 13, 2004	0.3
• Water/Wastewater Inspection Program, Environment, Kipling	June 11, 2004	0.3
<b>SWWA Annual Conference, Saskatoon, November 3, 2004</b>		
• Water Meter Workshop, Spartan Controls		0.3
• Water Distribution Maintenance, Turner Consulting		0.3
• Organics in Surface Water, Buffalo Pound		0.6
• AWWA Teleconference: “Sustainability”		0.3
<b>SWWA Workshops, 2005</b>		
Chemical Solution Feed Pumps O & M, ClearTech		
• Kindersley	Mar 16, 2005	0.3
• Moosomin	Mar 23, 2005	0.3
• Waterworks Systems Assessment, Environment: Assiniboia	June 3, 2005	0.5
• Confined Space Entry, Kin-Kerr Services Ltd.: Saskatoon	Sept 28, 2005	0.6
<b>SWWA Annual Conference, Saskatoon, November 2, 2005</b>		
• Media & Public Relations, Sask. Watershed Authority (SWA)		0.3
• Programmable Logic Controllers, Delco Automation		0.3
• Well O & M, PFRA, SWA, Grundfos Pumps		0.3
• Filter Maintenance, Anthratch Western		0.3
• AWWA Teleconference, “Shrinking Workforce”		0.3
<b>SWWA Workshops, 2006</b>		
Jar Testing		
• North Battleford	Jan 23, 2006	0.5
• Herbert	Jan 26, 2006	0.5
Reservoir Maintenance		
• Tisdale	Feb 14, 2006	0.6
• Weyburn	Feb 21, 2006	0.6
Distribution System O&M, AWWA Teleconference replay		
• Prince Albert	Mar 21, 2006	0.3
• Melville	Mar 29, 2006	0.3
• UV Disinfection: Biggar	June 2, 2006	0.6

<b>SWWA Annual Conference, Saskatoon, November 1, 2006</b>		
• Lift Station Pump Design		0.6
• Maintaining the Performance of RO Systems		0.3
• Principles of Chlorination		0.3
• Watermain Distribution Maintenance, Keith Mayo, ATAP		0.3
• Federal/Provincial Regulatory Framework		0.3
• AWWA Teleconference – Fire Hydrants – O & M		0.3
<b>SWWA Workshops, 2007</b>		
• Jar Testing, Kipling	Jan 17, 2007	0.5
• Distribution System Repair, Rehab. & Replacement; AWWA Video Conference Shaunavon	Jan 24, 2007	0.3
• Iron & Manganese Removal, Marcelin AWI	Feb 6, 2007	0.5
• Membrane Filtration, Manitou Beach; Associated	Feb 28, 2007	0.5
• Math for Operators, Yorkton, MR2 / ClearTech	Apr 18, 2007	0.5
• Lagoon Operation & Maintenance; Nelson Env. Inc: Martensville	Apr 25, 2007	0.5
• Sampling Techniques & Equipment Calibration; Hach Canada Moose Jaw	April 27, 2007	0.5
• Leak Detection & Audit, Al Turner Consulting, Weyburn / Melville	May 7-9, 2007	0.5
• Emergency Planning for Water & Wastewater, Nipawin	June 7, 2007	0.6
<b>SWWA Annual Conference, November 7-8, 2007</b>		
• Water Efficiency from Planning to Implementation		0.3
• The Safe Handling of Chlorine Gas		0.3
• Small Waterworks Disinfection Contact Time		0.3
• Management of Ground Water Sources		0.3
• Watermain Swabbing		0.3
• From Water Sampling to Report		0.3
<b>SWWA Workshops, 2008</b>		
• Lagoon Operation and Maintenance	Mar 4,5,18, 2008	0.6
• Water Conservation	Mar 27, 2008	0.6
• Math for Operators	Mar 5, 6, 2008	0.5
• Leak Detection & Audit, Al Turner Consulting Ltd.	May 6 & 8, 2008	0.5
	June 4, 2008	0.5
• Valve & Hydrant – Mueller	Apr 29, 2008	0.7
	May 1, 2008	0.7
• Filter Operation & Maintenance	Apr 30, 2008	0.6
	May 14, 2008	0.6
<b>SWWA Annual Conference, November 5-6, 2008</b>		
• Mechanical Pipe Restraint Design		0.3
• Seals Are Not Just Furry Animals		0.3
• Solar Hot Water Heating in Saskatchewan		0.3
• It's Only Iron and Manganese – It Can be Treated		0.3
• Do You Have a Pandemic Plan?		0.3
• Working in Confined Spaces		0.3
<b>SWWA Workshops, 2009</b>		
• Jar Testing, Prince Albert	Feb 10,11, 2009	0.7
• Jar Testing, Assiniboia	Feb 20, 2009	0.7
• Valves, Meters & Piping Attachments – Mueller	May 6, 7, 2009	0.6
Cylinder Mount Chlorinator Operation and Maintenance	Mar 31, 2009	0.6
	Apr 7, 2009	0.6
Lagoon Operation and Maintenance	Mar 25, 2009	0.6
	Apr 23, 2009	0.6
• Rosetown		
• Langenburg		
• Aging Infrastructure, Prince Albert (Golf Tourney)	June 5, 2009	0.5
• Lift Station Operation & Maintenance, Saskatoon	Apr 29, 2009	0.5
<b>SWWA Annual Conference, November 4-6, 2009</b>		
• Hydrant Operation & Maintenance		0.3

• True Grit – The Workshop		0.3
• Exactly What is Free Chlorine?		0.3
• Building Procedures with the SOP Toolkit		0.3
• High Density Polyethylene (HDPE) Pipe Fusion		0.3
• Asset Management		0.3
<b>SWWA Workshops, 2010</b>		
• Chemical Solution Feed Pumps Workshop will be in Unity		0.3
Hydrant Operation and Maintenance		
• Yorkton	May 4, 2010	0.7
• North Battleford	May 6, 2010	0.7
Valves, Meters and Piping Attachments		
• Humboldt	Apr 6, 2010	0.6
• Moose Jaw	Apr 7, 2010	0.6
• High Density Polyethylene (HDPE) Pipe Fusion, Theory & Practical	Feb 24, 2010	0.7
• Extended – Saskatoon		0.8
• Building Procedures with the SOP Tool Kit	Apr 14, 2010	0.6
• Fire Hydrant and Valve Maintenance / Repair CLOW Canada Weyburn	June 16, 2010	0.6
• Drinking Water Reservoir – Design, Operation and Maintenance, Saskatoon	May 19, 2010	0.5
Municipal Wastewater Piping System Maintenance		
• Outlook	May 11, 2010	0.4
• Weyburn	May 12, 2010	0.4
• Groundwater Issues in Saskatchewan, Swift Current	June 4, 2010	0.5
<b>SWWA Annual Conference, November 3-4, 2010</b>		
• Couplings, Service Saddles, Tapping Sleeves and Repair Clamps, Saskatoon, SK	Nov 4, 2010	0.3
• SCADA Solutions Enhance Productivity of Water Utilities	Nov 3, 2010	0.3
• Fundamentals of Calibration and Certification of On Line and Lab Instruments in Water & Wastewater	Nov 4, 2010	0.3
• Regulations, Permits to Operate & Operator Certification, Saskatoon SK – SMOE	Nov 4, 2010	0.3
• Industrial Electrical Safety for Non-Electrical Workers	Nov 3, 2010	0.3
• Blowers, Air Compressors and Air Dryers	Nov 4, 2010	0.3
<b>SWWA Workshops, 2011</b>		
• Basic Science – AC Pipes Water Distribution Systems –Yorkton	Mar 29, 2011	0.6
• Maintenance of Valves – Watrous	Apr 12, 2011	0.6
• Solar Mount – Chlorine Safety - Wakaw	Apr 13, 2011	0.6
• Cross Connection Control – Saskatoon	Apr 29, 2011	0.6
• Lift Station Operation & Maintenance – Saskatoon	May 9, 2011	0.6
Valves, Meters & Piping Attachments		
• Wynyard	May 10, 2011	0.6
• Estevan	May 11, 2011	0.6
• Disinfection and Chemical Pump, NB Grand Council	May 12&13, 2011	1.2
• Intro to GPS – SWWA Golf Tournament – Yorkton, Cansel	June 2, 2011	0.6
• Sampling Techniques & Analysis SWWA Golf Tourney Yorkton	June 2, 2011	0.6
<b>SWWA Annual Conference, November 16-18, 2011</b>		
• Trenchless Technology – City of Edmonton		0.3
• Introduction to Invasive Species		0.3
• Conventional Treatment – Enviro Way		0.3
• Source Water Protection in Canada		0.3
• Optimizing Nutrient Removal Through Instrumentation		0.3
• Drinking Water Management Systems		0.3
• Pump Course – Anthony Cherwenuk		0.6
• Take Control – Neptune Technology Group		0.3
• Control Systems, PLC's and SCADA		0.6
<b>SWWA Workshops, 2012</b>		

• Supervisory Training for the Water and Wastewater Industry		0.3
• Chlorine Safety and Handling Seminar, ClearTech		0.6
• RO Course, T. Helmink, M. Nelson		0.6
<b>SWWA Annual Conference, November 7-9, 2012</b>		
• WS-1 Water Loss Reduction through Pressure Management	Singer Valve	0.3
• WS-2 Unidirectional Flushing	AquiData	0.3
• WS-3 Safety at the Workplace	WCB	0.3
• WS-4 Pump Maintenance	Xylem	0.3
• WS-5 Water Meter Management – Neptune Tech.	Bruce Keachie	0.3
• WS-6 Well Inspection, Operation & Maintenance, SWA	Nolan Shaheen	0.3
• WS-7 Walkerton Now – Bruce Davidson		0.2
<b>SWWA Workshops 2013</b>		
• Sask Water Security Agency – 25 Yr Plan	May 31, 2013	0.3
• Standard Operating Procedures – Dawn Dierker	May 31, 2013	0.6
• OH&S Workplace Responsibility System & Info Sessions Kim Meyer	May 31, 2013	0.3
<b>SWWA Annual Conference, November 6-8, 2013</b>		
• WS-1 Pump Efficiency – Testing & Analysis	AE	0.3
• WS-2 Advances in Headworks Technologies	Stantec	0.3
• WS-3 Development of Operation Maintenance Manuals & SOPs	ATAP	0.3
• WS-4 RO/NF Membrane	Avista	0.3
• WS-5 Flownet Meter Reading Technology	Corix	0.3
• WS-6 Do Disinfection By-Products in Drinking Water Cause Cancer in Humans	Hrudey	0.3
• WS-7 Effective Negotiation Skills	McDougall	0.2
<b>SWWA Workshops 2014</b>		
• Metering Pumps, Anderson Pump House	Mar 26, 2014	0.3
• Maintenance & Troubleshooting for Sewage Pump Stations	Mar 26, 2014	0.3
• Flushing out the Mysteries of Wastewater Treatment (Dierker)	May 29, 2014	0.6
• Membrane Treatment Seminar	May 29, 2014	0.6
<b>SWWA Annual Conference, November 5-7, 2014</b>		
2014 SWWA Conference CEU (an operator may only receive either individual workshop certificates or the overall conference certificate, not a combination of both)	Nov 5-7, 2014	1.2
• Disinfection By-Products (Hooge)	Nov 2014	0.3
• What to Expect in State of Emergencies	Nov 2014	0.3
• Process Control and SCADA Fundamentals	Nov 2014	0.3
• Removing Iron & Manganese The Process – The Media – The Maintenance	Nov 2014	0.3
• Infrastructure Asset Management	Nov 2014	0.3
• The Changing World of Emergency Planning	Nov 2014	0.2
• Using Data Effectively on Report Graphing Benchmarking & Statistical Process Control w/Plant Operations Scott Dorner Hach	Nov 2014	0.3
<b>SWWA Workshops, 2015</b>		
• Hydrant Operation and Maintenance – Don Webb Mueller		0.6
• Control Systems, PLC's and SCADA; Bob Baumgartner SaskWater		0.6
• Chlorine Safety and Handling Seminar; Cleartec		0.6
• Sampling Techniques & Analysis; Dawn Dierker		0.6
<b>SWWA Annual Conference, November 4-6, 2015</b>		
2015 SWWA Conference CEU (an operator may only receive either individual workshops certificates or the overall conference certificate, not a combination of both)	Nov 4-6, 2015	1.2
• Distribution Operation Maintenance	Nov 2015	0.3
• Building & Maintaining a Resilient Smart Grid Systems, Meters, Maintenance & Technology	Nov 2015	0.3

• Lagoons	Nov 2015	0.3
• Proper Hydrant Inspection	Nov 2015	0.3
• Nutrient Removal: What this Means for Your Community Under New Regulations	Nov 2015	0.3
• Remote Monitoring and Reduced Visits	Nov 2015	0.3
• 7.5 Things That We Can Do to Save Lives and Bring Value to an Organization	Nov 2015	0.3
<b>SWWA Annual Conference, November 2-4, 2016</b>		
2016 SWWA Conference CEU (an operator may only receive either individual workshops certificates or the overall conference certificate, not a combination of both)	Nov 2-4 2016	1.2
• The Power of Building and Operating a Resilient Smart Grid System: Meters, Maintenance & Analytics	Nov 2016	0.3
• Cold Climate Nitrification, Removing Ammonia from Frigid Lagoons	Nov 2016	0.3
• Small Wastewater Systems	Nov 2016	0.3
• Cold Climate Lagoons – Removing Ammonia, Phosphorous & Nitrogen	Nov 2016	0.3
• CIPP Pressure Pipe Seminar	Nov 2016	0.3
• Treated Water – to the distribution system & beyond	Nov 2016	0.3
• Working Together From Start to	Nov 2016	0.3
• Unidirectional Flushing	Nov 2016	0.3
<b>SWWA Workshops, 2017</b>		
• Are You Prepared? Emergency Response Planning, Certification & WSA Updates – Saskatoon – A. Raghu & K. Neuert, WSA	Mar 22, 2017	0.6
• Asset Management – Saskatoon	Mar 9, 2017	0.6
• Service Line Applications & Tapping – Estevan & Saskatoon – D. Webb – Mueller	Apr 25-26, 2017	0.6
• Water Meters, Valves and Pipe Repair and Protection – North Battleford & Swift Current – A. McGregor – Neptune Technologies	Mar 27-28, 2017	0.6
<b>SWWA Annual Conference, November 1-2, 2017</b>		
2017 SWWA Conference CEU (an operator may only receive either individual workshops certificates or the overall conference certificate, not a combination of both)	Nov 1-2, 2017	1.2
• Asset Management	Nov 1, 2017	0.3
• Positive Displacement and Centrifugal Pumps (WS2)	Nov 1, 2017	0.3
• Determining the Right Automated Reading System	Nov 1, 2017	0.3
• Water Supply Crisis-How we treated water from 4 different sources in 10 days to keep the taps running	Nov 2, 2017	0.3
• Applications and Case Studies of Membrane Systems for Water Treatment	Nov 2, 2017	0.3
• Nothing is Out of Reach: Advanced Metering Reading	Nov 2, 2017	0.3
• Walkerton Now	Nov 2, 2017	0.3
• Courage Inside Fire, Darby Allen's Story of Trust, Teamwork and Leadership	Nov 2, 2017	0.1
• Hydrant Operation & Maintenance	April 24&26, 2018	0.6
• Membrane Technology	May 2, 2018	0.7
<b>SWWA Annual Conference, November 7-8, 2018</b>		
2018 SWWA Conference CEU (an operator may only receive either individual workshops certificates or the overall conference certificate, not a combination of both)	Nov 7-8, 2018	1.2
• Squamish WWTP Automation Upgrade	Nov 7, 2018	0.1
• PipePatch Trenchless Point Repair	Nov 7, 2018	0.1
• Gas Detection Safety in the Water and Wastewater Industry	Nov 7, 2018	0.1
• Replace your old Traditional air/vac release valves	Nov 7, 2018	0.1
• MIE X Anion Exchange	Nov 7, 2018	0.1

• Membrane Technology Overview	Nov 7, 2018	0.1
• Woodlot Eff Investigation	Nov 7, 2018	0.1
• You Found What in My Water?	Nov 7, 2018	0.1
• Innovative Solutions for Lagoons and Mechanical Plants	Nov 7, 2018	0.1
• Chemical Feed & Instrumentation	Nov 7, 2018	0.3
• The Significance of a Hydrant and Valve	Nov 7, 2018	0.3
• Validation of Water & Wastewater Quality Measurements	Nov 7, 2018	0.3
• Fundamentals of Pumping	Nov 8, 2018	0.3
• Survey of Meter & Meter Reading	Nov 8, 2018	0.3
• Iron and Manganese Removal	Nov 8, 2018	0.3
• Legalities of Public Officials	Nov 8, 2018	0.3
• Blue is the New Green	Nov 8, 2018	0.3
• Creating a culture of high productivity in your organization	Nov 9, 2018	0.3
• Pump and System Hydraulics		0.6
• Water Sampling & Analysis		0.6
• Multiple Pathways to Resiliency		0.3
<b>SWWA Annual Conference, November 6-8, 2019</b>		
2019 SWWA Conference CEU (an operator may only receive either individual workshops certificates or the overall conference certificate, not a combination of both)	Nov 6-8, 2019	1.2
• Take a Little More Off the Top:How to Optimize Your Plant	Nov 6-8, 2019	0.1
• HydroVac	Nov 6-8, 2019	0.1
• Smart Cities Smart Water How Lot Devices are Transforming the	Nov 6-8, 2019	0.1
• Plant Performance Improvements at Town of Gravelbourg	Nov 6-8, 2019	0.1
• What's Going on in your System?	Nov 6-8, 2019	0.1
• I Zinc we had a Toxic Event	Nov 6-8, 2019	0.1
• Piloting of Ceramic Filter Media vs Sand/Anthracite...Basins	Nov 6-8, 2019	0.1
• Which Pipe First?	Nov 6-8, 2019	0.1
• Biological Treatment of Drinking Water for Village of Mankota	Nov 6-8, 2019	0.1
• SCADA: The Industrial Technology Revolution	Nov 6-8, 2019	0.3
• Granular Media Filtration is a Batch Process	Nov 6-8, 2019	0.3
• Transient and Surge Related Pipe Bursts	Nov 6-8, 2019	0.3
• Distribution Maintenance	Nov 6-8, 2019	0.3
• Achieving Safety, Performance Optimization and Overviewed	Nov 6-8, 2019	0.3
• Multiple Ways of Resiliency	Nov 6-8, 2019	0.3
• Safety Culture	Nov 6-8, 2019	0.3
• Water Loss & Leak Detection 101 – Online		0.3
• Red Cross Psychological First Aid		0.3
• Webinar #1 Supervision Principles	Nov 24&25 2020	0.3
• Webinar #2 Management & Development Workforce	Dec 1 & 2 2020	0.3
• Webinar #3 Employee Relations	Dec 8 & 9 2020	0.3
• Webinar #4 Change Management & Change Leadership	Dec 15&16 2020	0.3
• Hydrant Valve and Service Brass Training Mueller	Oct 21, 2020	0.3
• Mueller Water System Products	Oct 21, 2020	0.3
• Pumps & Hydraulics	online	0.3
• Filtrate – Expanded Clay Media	webinar	0.3
• WSA Workshop	webinar	0.4
• Lagoon Workshop	online	0.4
• Energy Management		0.3
• SWWA Annual Conference, November 3-5, 2021		1.0
• Treatment Technologies for Surface Water versus Groundwater		0.4

**SaskPower Corporation** <http://www.saskpower.com/>

• Confined Space Entry & Basic Rescue, Refresher Course	Mar 13, 2007	0.7
• Management Essentials Program – Supervisor		3.0

**SaskWater Corporation** <http://www.saskwater.com/>

• Industrial Electrical Safety for Non-Electrical Workers – Magna Electric Corp	Feb 25, 2010 Feb 18, 2011	0.6
• Chlorine Analyzers Troubleshooting – Metcon	Apr 14&15, 2011	0.7
• Crucial Conversations	Dec 5-6, 2017	1.4
• Supervisor Drug & Alcohol Awareness Training (Non-DOT)		0.2

**Sharalife First Aid Inc (Canadian Red Cross)**

• Emergency Medical Responder Instructor Co-Teach		4.0
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**Shermco Industries Canada Inc.**

• Electrical Safety for Non-Electrical Workers	various	0.6
• Arc Flash Protection & Electrical Systems Safety: Qualified Electrical Worker Training	various	1.4

**St. John Ambulance Saskatchewan Council** <http://www.sja.ca>

<b>Occupational Health and Safety (OH&amp;S) Courses</b>		
• Standard First Aid (includes CPR-A and AED)		1.6
• Standard First Aid with a CPR-B		1.7
• Standard First Aid with a CPR-C		1.8
• Medical First Responder I (also run as Intermediate First Aid in the mines)		4.0
• Medical First Responder II (Equivalent to OHS B certificate)		8.0
• Emergency Medical Responder		9.6
• Standard First Aid/CPR Recertification	Red Cross	0.8
• Emergency First Aid		0.8
• CPR A		0.4
• CPR B		0.5
• CPR C		0.6

**Southeast College** <http://www.southeastcollege.org>

• PME – Forklift		0.7
• H2S Alive – Enform		0.6
• Confined Space		0.6
• Fall Arrest		0.4
• Municipal Management Essentials – Supervisory Skills		1.3
• Municipal Management Essentials – Problem Solving & Decision Making		1.3
• Municipal Management Essentials – Negotiation Skills		1.3
• Municipal Management Essentials – Customer Relations		1.3
• Municipal Management Essentials – Time Management & Organizational Skills		0.7
• Municipal Management Essentials – Being a Safety Leader		1.3
• Rigger / Signal Person		0.7
• Ground Disturbance for Supervisors and Workers		0.7
• Confined Space		0.6
• Leadership and Influence		0.5



• Meeting Management		0.5
• Supervising Others		0.5

## Spartan Controls

• Pressure Control Valve Training		0.3
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## SUFFA CISM / SASK EMFS / SAFC

• Group Crisis Intervention	Mar 19-20, 2016	1.4
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## Tagwood Enterprizes Ltd.

• Mobile Equipment Training	May 22, 2015	0.7
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## Team Power Solutions

• Electrical Awareness Safety for Non-Electrical Workers in Sask		0.5
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## Technical Training

• Water Innovation and Knowledge Transfer Conference	Nov 5, 2020	0.3
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## The PM Connection [www.thepmconnection.com](http://www.thepmconnection.com)

• Project Management Training Exam Prep Class		2.3
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## ThinkReliability

• Cause Mapping Root Cause Analysis (Online Workshop)		0.9
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## Thompson Rivers University

• XWTP 0010 Water Supply Hydrology		3.0
• XWTP 0020 Ground and Surface Sources		3.0
• XWTP 0030 Water Supply Protection		3.0
• XWTP 0050 Small Water System Operations		3.0
• XWTP 0060 Basic Principles of Sedimentation and Filtration		3.0
• XWTP 0070 Basic Principles of Disinfection and Water Storage		3.0
• XWTP 0090 Applied Operation Math		3.0
• XWTP 0100 Basic Hydraulics		3.0
• XWTP 0110 Basic Water Chemistry		3.0
• XWTP 0130 Pipes, Valves and Fittings		3.0
• XWTP 0140 Basic Principles of Pumps		3.0
• XWTP 0150 Cross Connection Control		3.0
• XWTP 0170 Environmental Legislation		3.0
• XWTP 0180 Occupational Health and Safety		3.0
• XWTP 0190 Communications		3.0
• XWTP 0200 Watersafe BC		0.6
• XWTP 0210 Electrical Principles		3.0
• XWTP 0220 Testing Electrical Circuits and Safe Work Practices		3.0
• XWTP 0230 Basics of Electrical Motors and Motor Control		3.0
• XWTP 0250 Instrumentation Principles		3.0
• XWTP 0260 Process Measurement		3.0
• XWTP 0270 Final Control Elements		3.0
• XWTP 0290 Treatment Process Pathway		3.0

• XWTP 0300 Secondary Process Equipment		3.0
• XWTP 0310 Municipal Water & Wastewater Pumping		3.0
• XWTP 0330 Coagulation		3.0
• XWTP 0340 pH Control and Water Softening		3.0
• XWTP 0350 Oxidation Reactions		3.0
• XWTP 0450 Advanced Motor Control and Basic Digital Techniques		3.0
• XWTP 0460 Basic Electronic Devices and Speed Drives		3.0
• XWTP 0470 Basic of Programmable Logic Controllers		3.0
• XWTP 0490 Introduction to Water Chemistry		3.0
• XWTP 0500 Inorganic Species in Water		3.0
• XWTP 0510 Organic Species in Water		3.0
• XWTP 0530 Advanced Coagulation and Emerging Technologies		3.0
• M XWTP 0540 Dissolved Air Floatation and Jar Testing Procedures		3.0
• XWTP 0550 Clarifiers		3.0
• XWTP 0570 The History, Mechanisms, and Classifications of Filters		3.0
• XWTP 0580 Slow and Rapid Sand Filtration		3.0
• XWTP 0590 Membrane and Alternative Filtration Techniques		3.0
• XWTP 0610 Basic Principles of Disinfection		3.0
• XWTP 0620 Standard Disinfection Practices		3.0
• XWTP 0630 Advanced Disinfection and Fluoridation Practices		3.0
• XWTP 0690 Introduction to Microbiology and Toxicology		3.0
• XWTP 0700 Microbiology		3.0
• XWTP 0710 Toxicology		3.0
• XWTP 0780 Advanced Programmable Logic Controllers		3.0
• XWTP 0790 Industrial Communications and SCADA Systems		3.0
• XWTP 0810 People Management		3.0
• XWTP 0820 Asset and Operations Management		3.0
• XWTP 0830 Financial Management		3.0
• XWTP 0900 Small Wastewater Operation Systems		3.0
• XWTP 0910 Wastewater Characteristics & Sources		3.0
• XWTP 0912 Industrial Wastewater Characteristics & Regulations		3.0
• XWTP 0920 Wastewater Collections & Pumping Systems		3.0
• XWTP 0922 Groundwater Pumps		3.0
• XWTP 0924 Water Distribution Systems		3.0
• XWTP 0930 Levels of Treatment in Wastewater		3.0
• XWTP 0940 Methods of Wastewater Treatment		3.0
• XWTP 0942 Energy Efficiency in Water & Wastewater Treatment Facilities		3.0
• XWTP 0950 Laboratory Principles of Wastewater		3.0
• XWTP 0960 Secondary Wastewater Treatment		3.0
• XWTP 0970 Advanced Wastewater Treatment		3.0
• XWTP 0980 Wastewater Residuals		3.0
• XWTP 0990 Industrial Wastewater Treatment		3.0
• XWTP 0010 Water Supply Hydrology		3.0
• WTP 1700 Water Sources		3.0
• WTP 1710 Water Treatment I		3.0
• WTP 1720 Applied Math and Science		3.0
• WTP 1730 Mechanical Systems 1		3.0
• WTP 1740 Environmental, Safety and Communications		3.0
• WTP 1760 Introduction to Wastewater		3.0
• WTP 1800 Electrical Fundamentals		3.0
• WTP 1820 Instrumentation I		3.0
• WTP 1830 Mechanical Systems II		3.0

• WTPP 1850 Water Treatment II		3.0
• WTPP 1860 Wastewater Utility		3.0
• WTPP 1870 Wastewater Utility II (WTPP 2760)		3.0

## Touchwood Agency Tribal Council and Indigenous and Northern Affairs Canada

• The Chemistry, Biology and Physics of Water Treatment: Navigating Poor Quality Source Waters		1.3
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## Trans Industrial Safety Training <http://www.transindustrial.ca/>

• Confined Space Training		0.8
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## Trans-Care Rescue Ltd.

• Confined Space Entry – Awareness Level		0.6
• Basic Fire Fighting Techniques	June 27,28, 2015	1.4

## Trihedral Engineering Ltd. <http://www.trihedral.com/>

• Making Best Operational Use of SCADA HMI Software		0.4
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## Trinity Safety & Training <http://www.trinitysafety.ca/>

• Confined Space Awareness and Entry Training		0.7
• Workplace Hazardous Material Information System (WHMIS)		0.3
• H2S Alive		0.7
• Transportation of Dangerous Goods (TGD) Training		0.3
• Standard First Aid/CPR Training		1.4
• Fire Safety – Extinguisher Training Program		0.3
• Ground Disturbance Level II		0.7
• Worker Fall Protection Training		0.7
• Powered Mobile Equipment		0.7

## University of Alberta

• Municipal Project Management		3.2
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## University of Regina

• Stakeholder, Resource and Communications Management	online	1.15
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## Urban Municipal Administrators Association of Saskatchewan (UMAAS)

<http://www.umaas.ca/>

• Responsibilities of Municipal Authorities		0.3
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## Vamp Oilfield Services Inc.

Course Name		CEU
• Confined Space Awareness	various	0.6
• Red Cross Standard First Aid	various	1.6
• Respiratory Protection Awareness	various	0.7
• Fall Protection Awareness	various	0.7

## Vector Solutions / Red Vector [www.vectorsolutions.com](http://www.vectorsolutions.com)

• Water Treatment; Water for Plant Systems Part 1 and 2		0.4
• Pumps: Fundamentals of Centrifugal Types		0.2
• Centrifugal Pumps		0.1

## Victory Safety and Training <http://victorysafety.ca/>

• WHMIS	various	0.3
• Confined Space Entry	various	0.6
• Ground Disturbance	various	0.6
• Transportation of Dangerous Goods (TDG)	various	0.3
• Fall Protection	various	0.6
• Red Cross Blended First Aid & CPR		1.5

## The WaterReuse Association [www.readytalk.com](http://www.readytalk.com) [www.wateruse.org](http://www.wateruse.org)

Operating a DPR Plant – Integrating the Critical Control		0.1
• How Prevalent is Legionella in Recycled Water?		0.1
• How Do You Maintain Chlorine Residuals in Recycled Water?		0.1
• California and Beyond-Next Steps in Advancing Potable Reuse		0.1
• Multipurpose Water Reuse in the Power Sector		0.1
• State of Agricultural Water Reuse: Impediments and Incentives		0.1
• Reuse Water in Agriculture, Policy and Implementation		0.1
• Potable Reuse for Inland Locations: Pilot Testing Results for a New Potable Reuse Treatment Scheme		0.1
• Recent Findings on Developing Public Health Guidance for Decentralized Non-Potable Water Systems		0.1
• Treatment Wetlands – Facilitating the Beneficial Use of Reuse		0.1
• Strategies to Mitigate Post Treatment Challenges in Potable Reuse Systems		0.1
• Enhanced Source Control for Direct Potable Reuse		0.1
• Membranes 101: The Basics and Beyond		0.1
• Integrating Mgmt of Sensor Data for Real Time Decision Making and Response System		0.1
• Innovative Strategies for Municipal Water Reuse		0.1
• Bioanalytical Screening Tools-An emerging technology to access complex mixtures in aquatic environments		0.1
• Selecting the Best Technology for Water Reuse-Overview of the MBR Process		0.1
• Where Are The Best Opportunities in Industrial Reuse?		0.1
• Community Engagement for Potable Reuse Success		0.1
• Using Onsite Water Recycling Systems to Transform		0.1
• Water Recycling and Wet Weather Management		0.1
• Triple Bottom Line Water Supply Planning at Your Fingertips: A Framework and Tool for Comprehensive Comparisons		0.1
• Building Community Confidence in Potable Reuse Through Stronger Risk Analysis		0.1
• Validation Protocols for Membrane Bioreactors and Ozone/Biologically Activated Carbon for Potable Use		0.1
• What We Know: Communicating About Recycled Water in the Age of Covid 19		0.15
• Digital Water Applications for System Reliability in Water Systems		0.1
• Water Reuse: An Operational Discussion		0.1
• Protection of Source Waters When Practicing Indirect Potable Reuse		0.1

• First Full Scale DPR Permit in Arizona for Demonstration and Education		0.1
• Leveraging Digital Water Solutions for Industrial Monitoring and Pretreatment Programs – Improving Enhanced Source Control Programs		0.1
• Past, Present & Future Reuse as Part of Arizona's Water Portfolio		0.2
• COVID-19 Research – Preliminary Findings from Wastewater Surveillance and Implications for Water Reuse		0.1
• From Urban to Rural: Water Reuse Case Studies in the Pacific Northwest		0.15
• How Water Reuse creates New Ways to Manage Wastewater Discharge		0.1
• Enhancing Control of Norovirus in Water with Improved Detection Methods		0.1
• Water Reuse in Palenstine, Current Situation, Challenges and Future Perspectives		0.1
• Potable Reuse Permitting to Startup: The Pure Water Monterey Journey		0.1
• PFAS in Biosolids Under a Land Application Scenario: Biotic Weather, Leaching and Transport		0.1
• Geochemical Considerations for Managed Aquifer Recharge Implementation in Potable Reuse		0.1

### Water Environment Federation <http://www.wef.org/>

• Fat, Oil and Grease (FOG) Management Workshop	Mar 8, 2010	0.7
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### Water Security Agency (WSA) <https://www.wsask.ca>

• Safety 101–Understanding Your Legal Responsibilities in OH&S	Apr 24, 2018	0.7
• Transport and Disposal of Liquid Domestic Waste	online	0.1

### Welwyn 1<sup>st</sup> Responders

• BLS Provider		0.4
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### WesTech Engineering <http://www.westech-inc.com/>

• Ultrafiltration System Training		1.0
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### Western Canada Water (WCW) <http://www.wcwwa.ca/>

<b>WCWWA Annual Conference</b>		
Pre-Conference Workshops, Saskatoon	Oct 16, 2005	
• Filter Surveillance, AWI (Operations)		0.7
• Combined Sewer/Storm Sewer Overflows (Technical)		0.6
• Micro-Biology (Technical)		0.6
WCWWA – AWWA Section / SIAST		
• Cross Connection Control Specialist	Feb 18, 2005	3.5
• Cross Connection Control – Recertification	March 2005	1.0
Western Canada Section AWWA: SIAST / Kelsey Campus / Other		
• Cross Connection Control Specialist		2.8
• Cross Connection Control Awareness		0.6
• Challenges in Monitoring Water Quality in the Distribution System, Edmonton, AB	Oct 23, 2007	0.5
• Coagulation & Flocculation Theory / High Rate Clarification Techniques, Winnipeg, MB	Sept 24, 2006	0.6

<b>WCWWA Workshops, 2008</b>		
• Source Water Protection Specialty, Edmonton AB	Oct. 15,16, '08	1.2
• Source Control – Best Practices, Edmonton, AB	Nov. 19, 2008	0.5
• Micro- & Ultra-Filtration Membrane Tech	TBA	1.5
• Disinfection: Know Your Enemy and Your Weapons, Calgary	Feb. 5, 2008	0.5
WCWWA Annual Conference September 23, 2008, Regina, SK		
• Planning for the Pandemic		0.3
• Asset Management – A Prerequisite for Infrastructure Stability		0.3
• Cross Connection Control		0.3
• Emerging Contaminants – Issues for Water Supply & Treatment		0.3
<b>WCWWA Workshops, 2009</b>		
• Small System Nutrient Removal, Winnipeg MB	Jan 15,16,2009	1.0
• Odour control in Wastewater Systems, Red Deer Lodge	Jan 28, 2009	0.5
<b>WCW Annual Conference, Winnipeg, MB, September 2009</b>		
• Where Has All Our Water Gone, Al Turner Consulting		0.3
• Understanding Contaminants of Emerging Concern		0.3
• Greenhouse Gases and Carbon Footprinting		0.3
• Utility Management Workshop		0.6
• Assessing & Addressing Challenging Hydraulic Issue in Wastewater		0.3
• The Future Art of Stormwater		0.5
<b>WCWWA Workshops, 2010</b>		
• Membrane Technologies for Water Treatment, Saskatoon	Jan 26, 2010	0.5
• Wastewater Pumping Station and Force-main Systems Design, Operation and Maintenance, Winnipeg, MB	Jan 21 & 22, 2010	1.2
<b>WCW Conference Calgary, AB, September 21 – 24, 2010</b>		
• Small System Nutrient Removal – Saskatoon	Apr 15&16, 2010	1.2
• Membrane Technologies for Water & Wastewater Treatment		0.6
• On-Site Hypochlorite Generation as a Chemical Disinfection Alternative – Red Deer Lodge, Red Deer, AB	June 8, 2010	0.6
• Tertiary Filtration Workshop		0.3
• SCADA Fundamentals		0.3
• River Health (Wastewater Effluent – Bow River)		0.3
• Regional Water Systems – Design and Operation Basics		0.3
• Linking Investment to Service Levels – Application of Asset Management Planning		0.3
• Watershed and Stormwater Management		0.3
• Cross Connection Control Trough Awareness & Backflow Prevention Workshop		0.3
• Project Management for Young Professionals		0.3
<b>WCW Workshops, 2011</b>		
• Source Control – Best Practices, Saskatoon	Jan 25, 2011	0.6
• Problem Solving Water & Wastewater Infrastructures – Edmonton	Apr 19, 2011	0.5
• Disinfection By-Products, Saskatoon	May 18, 2011	0.6
• AWWA Web Workshop – Pump Operations and Maintenance	various	0.4
<b>WCW Conference Workshops, 2011</b>		
• W1 – Asset Management Workshop	Sep 21-23, 2011	0.3
• W2 – Reservoir Water Quality Management	Sep 21-23, 2011	0.3
• W3 – Source Water Protection	Sep 21-23, 2011	0.3
• W4 – Project Management	Sep 21-23, 2011	0.3
• W5 – Watermain Relining	Sep 21-23, 2011	0.3
• W6 – Contract Law for Engineers	Sep 21-23, 2011	0.3
• Laboratory Analysis and Compliance Monitoring, Red Deer, AB	Nov. 8, 2011	0.5
• Issues/Trends in Industrial Wastewater Treatment, Without Tour		0.8
• With Tour – Winnipeg, MB	Feb. 7-8, 2012	1.0
<b>WCW Workshops, 2012</b>		

• Disinfection Workshop		0.6
• Well Maintenance Workshop – Regina	June 19, 2012	0.6
• Municipal Water Reuse – Challenges and Opportunity		0.6
<b>WCW Conference Workshops, 2012</b>		
• Water Conservation Guidelines, J. Fisher & A. Turner	Sep 19-21, 2012	0.3
• Water Reuse in Western Canada, E. Murphy, CH2M Hill	Sep 19-21, 2012	0.3
• Leadership in Project Management, T. Carson & Associates Ltd.	Sep 19-21, 2012	0.3
• Conventional Water Treatment, E. Murphy, CH2M Hill	Sep 19-21, 2012	0.3
• Introduction to Social Media, R. Miranda, Digital Relay Inc.	Sep 19-21, 2012	0.3
<b>WCW Workshops, 2013</b>		
• Membrane Theory & Maintenance, Saskatoon	Jan17, 2013	0.6
• Effective Operations of Water & Wastewater Systems, Regina	Mar 6, 2013	0.4
• Water Treatment Disinfection Workshop, Saskatoon	Oct 2, 2013	0.6
• Asset Management & Alternative Project Delivery for Water & Wastewater Systems	Nov 2013	0.6
<b>WCW Conference Workshops, 2013</b>		
• Leadership Concerns Workshop (LeLacheur)	Sep 2013	0.3
• Drinking Water Safety Plan Information Session (Beier)	Sep 2013	0.3
• Biosolids Management: Understanding Requirements and Options (Mumby)	Sep 2013	0.3
• Green Building: Clear Savings Potential (Hawkesworth)	Sep 2013	0.3
• Managing Greenhouse Gas In Wastewater Treatment Plants(Yan)	Sep 2013	0.3
• Source Control Strategies That Work (Johnston, Hunter)	Sep 2013	0.3
<b>WCW Workshops, 2014</b>		
• Municipal Wastewater: Basics, Treatment, Regulations & Case Studies	May 2014	0.6
• Surface Water Treatment Workshop	Feb 2014	0.6
• Small System Nutrient Removal Seminar	Sep. 9/14	0.7
• Surface Water Quality and Watershed Protection	Nov 2014	0.5
<b>WCW Conference Workshops, 2014</b>		
• Disinfection of Drinking Water	Sept 2014	0.7
• Biological Nutrient Removal (BNR)	Sept 2014	0.3
• Municipal Wastewater-Federal Regulations and Toxicity Testing	Sept 2014	0.3
• Building a Robust Capital Investment Plan	Sept 2014	0.3
<b>WCW Workshops, 2015</b>		
• Asset Management Workshop	Mar 2015	0.7
• Sewage Lagoon Treatment for Wastewater	May 14, 2015	0.5
<b>WCW Conference Workshops, 2016</b>		
• Process Modeling Techniques for Optimizing Wastewater Treatment Plant Performance	Oct 4, 2016	0.6
• Increasing Communication and Collaboration Effectiveness: Bridging the Gap Between Engineers and Operators	Oct 4, 2016	0.3
• Small Water/Wastewater Treatment Systems – Design and Operational Challenges	Oct 4, 2016	0.3
• Variable Speed Pumping: Better than Constant Speed Pumping?	Oct 4, 2016	0.3
• Nutrient Recovery – Productive Solution of a Common Problem	Oct 4, 2016	0.3
• Chemical Feed – Practical Applications	Oct 4, 2016	0.3
• W1 – Where Has All Our Water Gone? Part 2	Sept 15-18 2015	0.3
• W2 – Biosolids	Sept 15-18 2015	0.3
• W3 – Membrane Optimization	Sept 15-18 2015	0.3
• W4 – Pumps & Force Mains	Sept 15-18 2015	0.3
• W5 – Public Consultation Process	Sept 15-18 2015	0.3
• W6 – Chemical Feed Pump Systems	Sept 15-18 2015	0.3
• Disinfection By Product Management	Mar 2, 2016	0.7
• Automatic Metering Systems	Apr 20 2016	0.7
• Canadian Biosolids and Residuals Conference 2016	May 18 -19 2016	0.9

• Wastewater Management Seminar & Tradeshow	Sept 21 2016	0.7
• Training or Tragedy: The Importance of Operator Training	June 20, 2017	0.7
<b>WCW Conference Workshops, 2017</b>	Sep 18-22, 2017	
• Leadership: It Starts with the Leader	Sep 18-22, 2017	0.3
<b>WCW Conference Workshops, 2018</b>		
• Drone Technology	Sept 18, 2018	0.3
• Fundamentals of Contract Law and Administration	Sept 18, 2018	0.3
• Odour Control	Sept 18, 2018	0.3
• Sewer Inspection And Asset Management Principles	Sept 18, 2018	0.3
• Well Development and Operations	Sept 18, 2018	0.3
<b>WCW General Seminars</b>		
• Disinfection By-Products, Calgary, Alberta	Nov 9, 2010	0.6
• Disinfection of Pipelines and Storage Facilities, AWWA	various	0.3
• Advanced Filter Optimization and Surveillance	Sept 19, 2017	0.6
• Automatic Metering Systems	Sept 19, 2017	0.4
• Lift Station Pumping Essentials	Sept 19, 2017	0.3
• Communication & Conflict		0.7
• Optimizing Municipal Lagoons		0.5
• Source Water Protection (Webinar Series)		0.3
• Your Lead Sampling Program (Webinar Series)		0.3
• Change Management & Change Leadership (Webinar Series)		0.3
• Dealing with Customer Complaints (Webinar Series)		0.3
• Art of Collaboration	online	0.3
• Emergency Preparedness & Response		0.3
• Activated Sludge BNR Process Control Workshop		0.6

## Western States Project

• Introduction to Environmental Enforcement	online	2.1
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## Western Trade Training Institute (WTTI) <http://www.wttionline.ca/>

• Hoisting and Rigging	various	0.7
• Boom Truck Competent Operator		2.2
• Enhanced Rigging		0.7
• Mobile Crane Competent Operator		3.0
• Rigging Fundamentals		0.7
• Overhead Travelling Crane Competent Operator		1.5

## Worksafe Saskatchewan

• Workplace Incident Investigation Course (Worksafe Sask)	online	0.3
• Supervision and Safety		0.7
• Workplace Inspection Training (Worksafe Sask)	online	0.3
• WHMIS 2015		0.4
• Level 1 OHC Training		1.4
• Level 2 OHC Training		0.7

## Worksite Safety Compliance Centre <http://worksitesafety.ca/>

• WHMIS	online	0.3
• Hydrogen Sulphide Safety		0.3
• Fire Safety and Extinguishers (online)		0.2



## World Water & Wastewater Solutions Ltd.

<b>Water Treatment</b>	<b>Course ID</b>	
• Anhydrous Ammonia Safety	WT-25-CT	0.3
• Chemical Safety	WT-26-CT	0.6
• Chloramination	WT-24-CT	0.6
• Chlorine Emergency Repair Kit	WT-28-CT	0.3
• Chlorination and Disinfection Refresher	WT-26-CT	0.6
• Chlorine Residual Testing	WT-24-CT	0.6
• Gas Chlorination Safety	WT-28-CT	0.3
• Gas Chlorination and Disinfection	WT-23-CT	2.7
• Groundwater Treatment and Water Quality	WT-55-CT	0.6
• Hydrogen Sulphide Awareness	WT-29-CT	0.3
• Hypochlorination and Disinfection	WT-22-CT	1.7
• Iron and Manganese Removal	WT-31-CT	0.6
• Pumps and Pumping Hydraulics	WT-17-HO	0.6
• Surface Water Treatment and Water Quality	WT-54-CT	0.6
• Exam Preparation OIT Water Treatment and Distribution	WT-11-CT	1.8
• Exam Preparation Level 1 & 2 Water Treatment	WT-52-CT	3.0
<b>Water Distribution</b>		
• Basic Water Distribution for Water Treatment Operators	WD-65-CT	0.6
• Basic Water Treatment for Distribution System Operators	WD-60-CT	0.6
• Buried Utility Locating	WD-32-HO	0.6
• Cross Connection Control	WD-62-CT	0.6
• Commissioning New Watermains	WD-05-HO	0.6
• Distributions System Breaks and Repairs	WD-04-HO	0.6
• Distribution System Pipe Assemblies	WD-06-HO	1.3
• Emerging Issues: Lead Services (Get the Lead Out!)	WD-62-CT	0.6
• Fundamentals of Water Distribution for New Operators	WD-44-HO	3.0
• Flushing Techniques	WD-03-HO	0.6
• Hydrostatic Pressure Testing of Watermains	WD-58-HO	0.6
• Introductory Math	WD-22-CT	0.6
• Maintaining Chlorine Residual and Proper Sampling Techniques	WD-24-CT	0.6
• Operation and maintenance of Fire Hydrants	WD-02-CT	1.2
• Tapping of Watermains	WD-01-HO	0.6
• Watermain Disinfection	WD-51-CT	0.6
• Exam Preparation Level 1 & 2 Water Distribution	WD-54-CT	3.0
• Exam Preparation Level 2 & 3 Water Distribution	WD-55-CT	3.0
<b>Wastewater Treatment</b>		
• Activated Sludge Control	WWT-05-CT	1.8
• Bio-Solids Handling	WWT-03-CT	0.6
• Basic Wastewater Treatment	WWT-02-CT	1.8
• Calculations In Wastewater Technology	WWT-14-CT	0.6
• Exam Preparation OIT, Wastewater Treatment and Collection	WWT-06-CT	3.0
• Exam Preparation Wastewater Treatment Level 1 & 2	WWT-07-CT	3.0
• Exam Preparation Wastewater Treatment Level 3 & 4	WWT-08-CT	3.0
• Fixed Film and Other Treatment Processes	WWT-13-CT	0.6
• Micro Organisms	WWT- 09-CT	0.6
• Ponds and Lagoons	WWT-11-CT	0.6
• Wastewater Digester Operation and Control	WWT-12-CT	0.6
• Wastewater Problem Solving	WWT-10-CT	0.6
• Basic Wastewater Collection for Treatment Plant Operators	WWT-20-CT	0.6
<b>Wastewater Collection</b>		
• Exam Preparation Wastewater Collection Class 1 & 2	WWC-01-CT	2.4
• Exam Preparation Wastewater Collection Class 3 & 4	WWC-02-CT	2.4
• Basic Wastewater Collection	WWC-07-CT	1.8

• Collection System Odour and Corrosion Control	WWC-09-CT	0.6
• Lift Station Operation and Maintenance	WWC-10-CT	0.6

**World Water Operator Training Company** [www.wwotc.com/registration](http://www.wwotc.com/registration)

• MECP COURSE ID	COURSE CODE AND TITLE	CEU	DELIVERY METHOD(S)
• 82	WD-06-HO "Distribution System Pipe Assemblies"	1.4	Classroom
• 87	WD-02-HO "Operation and Maintenance of Fire Hydrant"	1.4	Classroom
• 88	WD-01-HO "Tapping of Water Mains"	0.7	Classroom
• 91	WD-24-CT "Maintaining Chlorine Residual and Proper Sampling Techniques"	0.7	Classroom / Webinar
• 221	WD-32-HO "Buried Utility Locating"	0.7	Classroom
• 222	WD-04-HO "Distribution System Breaks and Repairs"	0.7	Classroom / Webinar
• 224	WT-17-HO "Pumps & Pumping Hydraulics"	0.7	Classroom / Webinar
• 225	WD-05-HO "Commissioning New Watermains"	0.7	Classroom
• 226	WD-03-HO "Flushing Techniques"	0.7	Classroom / Webinar
• 227	WT-18-CT "Introduction to Membranes for Water Treatment"	0.7	Classroom / Webinar
• 436	WT-25-CT "Anhydrous Ammonia Safety"	0.4	Classroom / Webinar
• 437	WT-26-CT "Chemical Safety"	0.7	Classroom / Webinar
• 438	WT-24-CT "Chloramination"	0.7	Classroom / Webinar
• 439	WT-61-CT "Chlorine Residual Testing"	0.3	Classroom / Webinar
• 440	WT-30-CT "Chlorination and Disinfection Refresher"	0.7	Classroom / Webinar
• 441	WT-23-CT "Gas Chlorination & Disinfection"	2.7	Classroom
• 442	WT-27-CT "Gas Chlorination Safety"	0.3	Classroom / Webinar
• 443	WT-28-CT "Chlorine Emergency Repair Kit"	0.4	Classroom / Webinar
• 444	WT-29-CT "Hydrogen Sulphide Awareness"	0.4	Classroom / Webinar
• 445	WT-22-CT "Hypochlorination and Disinfection"	1.7	Classroom / Webinar
• 446	WD-51-CT "Water Main Disinfection"	0.7	Classroom / Webinar
• 1220	WD-60-CT "Basic Water Treatment for Water Distribution Operators"	0.7	Classroom / Webinar
• 1302	WT-55-CT "Groundwater Treatment and Quality"	0.7	Classroom / Webinar

• 1345	WD-58-HO "Hydrostatic Testing of Watermains"	0.7	Classroom
• 1347	WD-62-CT "Emerging Issues: Lead Services"	0.7	Classroom / Webinar
• 1822	WT-54-CT "Surface Water Treatment and Quality"	0.7	Classroom / Webinar
• 1823	WT-39-CT "Cross Connection Control"	0.7	Classroom / Webinar
• 1825	RM-43-CT "Record Keeping"	0.3	Classroom / Webinar
• 2973	WD-44-HO "Fundamentals of Water Distribution for New Operators"	3.5	Classroom
• 3043	WD-65-CT "Water Quality for Distribution Systems"	0.7	Classroom / Webinar
• 3044	WT-65-CT "Basic Water Distribution for Water Treatment Operators"	0.7	Classroom / Webinar
• 4144	WT-64-CT "Adverse Water Quality Response"	0.7	Classroom / Webinar
• 4524	WD-19-CT "Corrosion Prevention and Control"	0.7	Classroom / Webinar
• 4525	WT-67-CT "Arsenic in Drinking Water"	0.7	Classroom / Webinar
• 4668	WT-68-CT "Basic Lab Procedures for Water Operators"	0.7	Classroom / Webinar
• 5407	WD-71-HO "Flow Testing of Fire Hydrants"	0.4	Classroom
• 7274	WD-75-HO "Distribution System Valve Maintenance"	0.7	Classroom
• 7493	WD-72-HO "Assessing your Distribution System for Rehabilitation"	1.4	Classroom
• 7553	WD-76-CT "Water Conservation (Cut Your Losses)"	0.7	Classroom / Webinar
• 8673	WD-73-HO "Distribution System Rehabilitation Alternatives"	1.4	Classroom
• 9833	WD-99-HO "Disinfection of Potable Water Piping"	0.7	Classroom / Webinar
• 9834	WD-98-HO "Fire Hydrant and Valve - Operation, Inspection, Maintenance and Installation"	0.7	Classroom
• 10113	WD-100-HO "Watermain Tapping and Repair"	0.7	Classroom / Webinar
• 10494	WT-70-CT "Ozone Technology for Water Treatment"	0.7	Classroom / Webinar
• 10495	RM-55-CT "Intermediate Math"	0.7	Classroom / Webinar
• 10496	WT-77-CT "Emerging Issues in Water Treatment"	0.7	Classroom / Webinar

• 11073	WD-103-HO "Winterwise: The Cold Hard Facts about Distribution Systems"	0.7	Classroom / Webinar
• 11074	WT-79-CT "Advanced Water Treatment"	0.7	Classroom / Webinar
• 11736	RM-56-CT "Equipment Preventative Maintenance"	0.7	Classroom / Webinar
• 11737	WT-85-CT "Drinking Water Disinfection - The CT Concept"	0.7	Classroom / Webinar
• 11996	RM-57-CT "Introduction to Water Operations Management"	2.4	Classroom / Webinar
• 12123	WT-81-CT "Ultraviolet Disinfection and Advanced Oxidation"	0.7	Classroom / Webinar
• 12221	WT-83-CT "Cyanotoxins and their Treatment"	0.7	Classroom / Webinar
• 12789	WD-106-CT "Overview of Water Storage Systems"	0.7	Classroom / Webinar
• 13028	WD-109-CT "The Distribution System: Protect Your Water from Source to Tap"	0.7	Classroom / Webinar
• 13029	WD-110-CT "Impacts of Trapped Air Particles in the Water Distribution System"	0.7	Classroom / Webinar
• 13590	WT-31-CT "Iron and Manganese Removal"	0.7	Classroom / Webinar
• 13797	RM-58-CT "Operational Imperatives"	0.7	Classroom / Webinar
• 13798	WT-90-CT "The Multi-barrier Approach to Drinking Water"	0.7	Classroom / Webinar
• 13799	WD-112-CT "Understanding System Hydraulics"	0.7	Classroom / Webinar
• 13956	WD-69-CT "Troubleshooting Skills for Distribution Operators"	0.7	Classroom / Webinar
• 13958	WD-53-CT "Watermain Breaks and Repairs"	1.4	Classroom / Webinar
• 14583	MT-01-HO "Water Meter Installer (and Removal)"	2.1	Classroom
• 14602	WD-113-HO "Workbench Maintenance"	0.7	Classroom
• 12508	WWT-05-SIM "Activated Sludge Control Using Simulator Model"	2.1	Classroom / Webinar
• 2063	WWT-05-CT "Activated Sludge Control"	2.1	Classroom / Webinar
• 7213	WWC-16-HO "Assessing Your Collection System for Rehabilitation"	1.4	Classroom
• 3168	WWT-20-CT "Basic WWC for WWT Operators"	0.7	Classroom / Webinar
• 3163	WWC-07-CT "Basic Wastewater Collection"	2.1	Classroom / Webinar
• 3167	WWC-11-CT "Basic WWT for WWC Operators"	0.7	Classroom / Webinar

• 12769	WWT-02-SIM "Basic Wastewater Treatment Using Simulator"	2.1	Classroom / Webinar
• 2057	WWT-02-CT "Basic Wastewater Treatment"	2.1	Classroom / Webinar
• 2058	WWT-03-CT "Biosolids Handling"	1.4	Classroom / Webinar
• 12853	WWT-14-SIM "Calculations in Wastewater Technology Using Simulator Model"	0.7	Classroom / Webinar
• 2842	WWT-14-CT "Calculations in Wastewater Technology"	0.7	Classroom / Webinar
• 2062	WWT-68-CT "Chemistry and Calculations for Clarifier and Sludge Conditioning"	2.1	Classroom / Webinar
• 3165	WWC-09-CT "Collection System Odour and Corrosion Control"	0.7	Classroom / Webinar
• 9073	WWC-17-HO "Collection System Rehabilitation Alternatives"	1.4	Classroom
• 10475	WWC-22-CT "Collection System Valve Operation and Maintenance"	0.7	Classroom / Webinar
• 6392	WWC-12-CT "Controlling Wastewater Collection - Inflow & Infiltration"	0.7	Classroom / Webinar
• 11695	WWT-90-CT "Effluent Disinfection"	0.7	Classroom / Webinar
• 3162	WWT-13-CT "Fixed Film and Other Treatment"	1.4	Classroom / Webinar
• 10254	WWT-72-CT "Introduction to Filamentous Identification"	1.4	Classroom / Webinar
• 12852	WWT-71-SIM "Introduction to Wastewater Management Using Simulator Model"	3.5	Classroom / Webinar
• 10114	WWT-71-CT "Introduction to Wastewater Management"	3.5	Classroom / Webinar
• 6255	WWT-25-CT "Jar Testing: Plant Operations in a Beaker"	0.7	Classroom / Webinar
• 10474	WWT-86-CT "Laboratory Procedures for Wastewater Operators"	0.7	Classroom / Webinar
• 3166	WWC-10-CT "Lift Station Operation and Maintenance"	0.7	Classroom / Webinar
• 19658	WWC-24-CT "Math for the Collection System Operator"	0.7	Classroom / Webinar
• 14535	WWT-94-CT "Membrane Bioreactors in Wastewater Treatment"	0.7	Classroom / Webinar
• 12284	WWT-09-CT "Microorganisms"	0.7	Classroom / Webinar
• 12928	WWT-21-SIM "Nitrogen Removal Systems Using Simulator Model"	0.7	Classroom / Webinar
• 6253	WWT-21-CT "Nitrogen Removal Systems"	0.7	Classroom / Webinar

• 12408	WWT-75-SIM "Nutrient Removal Systems Using Simulator Model"	0.7	Classroom / Webinar
• 9653	WWT-75-CT "Nutrient Removal Systems"	0.7	Classroom / Webinar
• 13855	WWT-70-CT "Ozone Technology for Wastewater Treatment"	0.7	Classroom / Webinar
• 12731	WWT-22-SIM "Phosphorous Removal Systems Using Simulator Model"	0.7	Classroom / Webinar
• 6254	WWT-22-CT "Phosphorous Removal Systems"	0.7	Classroom / Webinar
• 14216	WWT-95-CT "Primary Basics"	0.7	Classroom / Webinar
• 6394	WWC-14-CT "Protecting Your Collection System Through Proper Sampling and Monitoring"	0.7	Classroom / Webinar
• 6393	WWC-13-CT "Sanitary Sewer Design and Construction Overview"	0.7	Classroom / Webinar
• 3164	WWC-08-CT "Sewer Flushing and Cleaning Techniques"	0.7	Classroom / Webinar
• 9074	WWC-18-HO "Sewer Line Repair"	0.7	Classroom
• 14217	WWC-96-CT "Sludge Conditioning Basics"	0.7	Classroom / Webinar
• 14598	WWC-23-CT "Stormwater Management"	0.7	Classroom / Webinar
• 6974	WWT-28-CT "Wastewater Bacteria"	0.7	Classroom / Webinar
• 2841	WWT-12-CT "Wastewater Digester Operation and Control"	0.7	Classroom / Webinar
• 8933	WWT-50-CT "Wastewater Laboratory Safety"	0.7	Classroom / Webinar
• 10473	WWT-85-CT "Wastewater Microbiology"	0.7	Classroom / Webinar
• 12409	WWT-10-SIM "Wastewater Problem Solving Using Simulator Model"	0.7	Classroom / Webinar
• 2056	WWT-10-CT "Wastewater Problem Solving"	0.7	Classroom / Webinar
• 12770	WWT-70-SIM "Wastewater System Design and Optimization Using Simulator Model"	1.4	Classroom / Webinar
• 8573	WWT-70-CT "Wastewater System Design and Optimization"	1.4	Classroom / Webinar

WWOTC Course Code	WWOTC Course Title	CEUs	Delivery Method
WD-54-CT	Exam Prep Review for Water Distribution & Supply: Level 1 & 2	3.5	Classroom/Webinar
WD-55-CT	Exam Prep Review for Water Distribution & Supply: Level 3 & 4	3.5	Classroom/Webinar
WD-107-CT	Exam Prep Review for WD: Level 1 & 2 (Four-day)	2.6	Classroom/Webinar
WD-108-CT	Exam Prep Review for WD: Level 3 & 4 (Four-day)	2.5	Classroom/Webinar
WD-114-WEB	Exam Review for WD Level 1: Live Workshop	0.7	Classroom/Webinar

WD-115-CT	Exam Prep Review - Fast Track: Water Distribution: Level 2	2.1	Classroom/Webinar
WD-118-WEB	Exam Review for WD Level 2: Live Workshop	0.7	Classroom/Webinar
WT-11-CT	Exam Prep Review for OIT: Water Treatment & Distribution (Four-day)	2.8	Classroom/Webinar
WT-52-CT	Exam Prep Review for Water Treatment: Level 1 & 2	3.4	Classroom/Webinar
WT-53-CT	Exam Prep Review for Water Treatment: Level 3 & 4	3.5	Classroom/Webinar
WT-87-CT	Exam Prep Review for WT: Level 1 & 2 (Four-day)	2.5	Classroom/Webinar
WT-88-CT	Exam Prep Review for WT Level 3 & 4 (Four-day)	2.6	Classroom/Webinar
WT-94-WEB	Exam Review for WT Level 1: Live Workshop	0.7	Classroom/Webinar
WT-95-CT	Exam Prep Review - Fast Track: Water Treatment: Level 2	2.1	Classroom/Webinar
WT-98-WEB	Exam Review for WT Level 2: Live Workshop	0.7	Classroom/Webinar
WWC-01-CT	Exam Prep Review for Wastewater Collection: Level 1 & 2	2.8	Classroom/Webinar
WWC-02-CT	Exam Prep Review for Wastewater Collection: Level 3 & 4	2.8	Classroom/Webinar
WWC-26-WEB	Exam Review for WWC Level 1: Live Workshop	0.7	Classroom/Webinar
WWC-28-CT	Exam Prep Review - Fast Track: Wastewater Collection: Level 3	2.1	Classroom/Webinar
WWC-30-WEB	Exam Review for WWC Level 2: Live Workshop	0.7	Classroom/Webinar
WWT-07-CT	Exam Prep Review for Wastewater Treatment: Level 1 & 2	3.5	Classroom/Webinar
WWT-08-CT	Exam Prep Review for Wastewater Treatment: Level 3 & 4	3.2	Classroom/Webinar
WWT-91-CT	Exam Prep Review for WWT: Level 1 & 2 (Four-day)	2.6	Classroom/Webinar
WWT-92-CT	Exam Prep Review for WWT: Level 3 & 4 (Four-day)	2.6	Classroom/Webinar
WWT-98-WEB	Exam Review for WWT Level 1: Live Workshop	0.7	Classroom/Webinar
WWT-100-CT	Exam Prep Review - Fast Track: Wastewater Treatment: Level 3	2.1	Classroom/Webinar
WWT-102-WEB	Exam Review for WWT Level 2: Live Workshop	0.7	Classroom/Webinar