

SaskH<sub>2</sub> 

**Saskatchewan Ministry of  
Environment  
Water and Wastewater Operator  
Certification Program**

**Continuing Education Unit  
Evaluation and Credit**



Government of  
Saskatchewan

# Saskatchewan Ministry of Environment 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, 2002* (EMPA) that was enacted on October 1, 2002. Section 81.1 Items (i) to (m) 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 Water Regulations, 2002 (2007), states in Section 63 that on and after July 15, 2005, 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 Municipal Branch of the Saskatchewan Ministry of Environment (MOE) administers the Water and Wastewater Operators Certification Program for the province. The MOE 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 MOE 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 MOE 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, 2002, 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 MOE 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 in to 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 are 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 Saskatchewan Ministry of Environment 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 bases 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 "Request for Course Evaluation" to Alberta Environment. The Request for Course Evaluation form can be found on the Saskatchewan Ministry of Environment website:

[http://www.saskh2o.ca/PDF/ceu\\_listing\\_operator-training\\_courses.pdf](http://www.saskh2o.ca/PDF/ceu_listing_operator-training_courses.pdf)

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

Course Name		CEU
•		
•		

### Administration, Supervisory and Safety

#### Amour Safety Inc.

<http://armoursafety.com/>

Course Name		CEU
• Fall Protection		0.6
• Confined Space Rescue c/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

#### Blackjack Holdings

No Website

Course Name		CEU
Ground Disturbance Level II		0.4
Transportation of Dangerous Goods		0.4
Fall Protection		0.4

#### Capital Safety

<http://www.capitalsafetytraining.com/>

Course Name		CEU
DBI/SALA Fall Protection General Awareness, BPWTP		0.4
DBI/SALA Fall Protection equipment Inspection Training, BPWTP		0.4

#### Chase Operator Training Ltd.

<http://www.chaseot.com/>

Course Name		CEU's
• 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

#### Digital-2000 Inc.

<http://www.digital-2000.com/>

Course Name			CEU's
	Module	Time (min)	
• 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

**Heavy Construction Safety Association of Saskatchewan Inc.**

<http://www.hcsas.sk.ca/>

Course Name		CEU's
• Transportation of Dangerous Goods		0.4
• Basic Hoisting and Rigging (Includes Int'l hand Signals for Hoisting)		1.4
• Confined Space Rescue Level 1		0.4
• Confined Space Rescue Level 2		0.7
• Ground Disturbance Level 1		0.4
• Ground Disturbance Level 2		0.7
• Powered Mobile Equipment, Various locations and trainers	TBA	0.7

**Occupational Health and Safety**

<http://www.lrws.gov.sk.ca/ohs-training-publications/>

Course Name		CEU's
• 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		0.7

**SaskPower Corporation**

<http://www.saskpower.com/>

Course Name		CEU
• Confined Space Entry & Basic Rescue, (refresher course)	March 13, 2007	0.7
• Confined Space Entry & Basic Rescue Full Course		1.4
• Fire Fighting – Hand Held – Practical Experience		0.7
• Hazardous Material Awareness	Apr. 30, 07	0.7
• Introduction to Hand Lines and hardware (rigging),	Sept. 19, 2006	0.7
• SaskPower Supervisory Essentials	Oct, 6-9, 2008	3.2
• Six Days for Safety	Various	2.2

**Trans Industrial Safety Training**

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

Course Name		CEU
• Confined Space Training		0.8
•		

### Trinity Safety & Training

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

Course Name		CEU's
• 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

### General CEU Workshops and Courses

#### Alberta Water & Wastewater Operators Association (AWWOA)

<http://www.awwoa.ab.ca/>

Course Name		CEU
Pumps: Theory, Operation and Maintenance (Home study)		3.0
Small Wastewater System Operations (Home study)		0.6

#### American Water Works Association (AWWA)

<http://www.awwa.org/>

Course Name		CEU
• AWWA Webcasts (any)	Contact MOE	0.0
• AWWA Seminar-on-Demand	Depending on Seminar	??
• Water Treatment Operator Level 1	Variable	6.0
• Water Treatment Operator Level 2	Variable	6.0
• Water Treatment Operator Level 3	Variable	6.0

AWWA eLearning (short list – more are available)		
• Advanced Disinfection of Pipelines and Storage Facilities		0.2
• Applied Mathematics		0.3
• Asbestos (General Industry)		0.1
• 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
• 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
• Water Main Installation		0.3
• Water System Mechanical Equipment		0.2

### ATAP Infrastructure Management Ltd.

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

Course Name		CEU
• 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
• Filter Surveillance & Optimization (formerly Filter Maintenance & Surveillance)		0.6
• Gas Chlorination (must attend both days)		1.2
• Hypo-Chlorination & Feeder Maintenance		0.6
• Iron & Manganese Removal		0.6
• Lagoon Operation and Maintenance		0.6

• Membrane Filtration (Class & Practical)	2 day	1.2
• Membrane Filtration	1 day	0.6
• Water Distribution System Maintenance		0.3
• Water Main Swabbing		0.6
• Water & Wastewater Workers Safety		0.6
• Wastewater Collection Maintenance (formerly Fall Maintenance - Collection Systems)		0.6
• WHMIS & Safety (formerly Safety for Water & Wastewater Workers)		0.6
• WHMIS		0.3

**California State University:- Sacramento**

<http://www.owp.csus.edu/>

Course Name		CEU
<b>Drinking Water Courses</b>		
• 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
•		
<b>Wastewater Courses</b>		
• 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 Wastewater Treatment	Vol. 1	9.0
• Industrial Wastewater Treatment	Vol. 2	9.0
<b>Management Courses</b>		
• Utility Management	(Pre – 2003)	4.5
• Utility Management	(Post - 2003)	2.0
• Managing for Success: Effective Utility Leadership		4.5
<b>Other</b>		
• Pre-Treatment Facility Inspection		9.0
• Small Water Systems – Wells		1.5
<b>Online Wastewater Courses</b>		
• Wastewater Treatment: Facilities and Pre-treatment	WAT 601A	1.8

**Cameco**

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

Course Name		CEU
• Confined Space Awareness		0.4
• Lock-out – Tag-out		0.3
• Respirator Fit Testing		0.2
• St. John's Ambulance Emergency Course		0.8
• St. John's Ambulance Standard Course		1.6
• St. John's Ambulance Intermediate Course		2.0
• Fall Protection		0.4

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

Course Name		CEU
• Water Distribution Class 1 – Optimize Consulting		1.1
• Wastewater Collection Class 1 – Optimize Consulting	June 21-24, '10	1.1
• Water Distribution Class 2 – Optimize Consulting		1.1
• Water Treatment Class 4 – Optimize Consulting	Jan 27-28, '11	1.6
• Wastewater Treatment Class 4 – Optimize Consulting	Dec 6-9, '10	3.2

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

Course Name		CEU
• UV Disinfection Training Workshop, Ozonia,	Nov. 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

**Cumberland College**[www.cumberlandcollege.sk.ca](http://www.cumberlandcollege.sk.ca)

Course Name		CEU
• Lagoon O & M, Nipawin,	Oct. 18/06	0.5
• Red Cross First Aid/CPR/AED	Various	2.0

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

Course Name		CEU
<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

**EchoLogics Engineering Inc.****EPIC**[http://www.epic-edu.com/index\\_regular.asp](http://www.epic-edu.com/index_regular.asp)

Course Name		CEU
• Membrane Separation to Industrial Wastewater Treatment Costs		1.2
• Pumps: Selection, Operation and Maintenance		1.2
• Water Chemistry		0.6
• Membrane Separations to Cut Water Treatment Costs		1.8
• Interpretation & Enforcement of Construction Contracts		1.2
• Bidding, Evaluation, Negotiation & Contract Award Procedures		0.6
• Maintaining and Rehabilitating Water Mains Design Build Fundamentals Workshop		1.2

• Municipal Wastewater Treatment Testing and Monitoring		1.8
• Reverse Osmosis Technology – A Practical Course		1.8

### Energy Guard Water Technologies

Course Name		CEU's
Reverse Osmosis – Operations & Maintenance		
• Basics of Membrane Treatment		0.6
• Advanced Membrane Treatment		0.6
Softeners and Filter Performance		0.6

### Global Training Center

<http://globaltrainingcentre.com/>

### Indiana State University

<http://www.indstate.edu/distance/>

Course Name		CEU
• Basic Supervision		5.0
• Basic Management		5.0

### Michigan State University

<http://www.msu.edu/>

Course Name		CEU
• Supervisory Management in the Water/Wastewater Field		6.0
• Maintenance Management in the Water/Wastewater Field		6.0

### Parkland Regional College

<http://www.parklandcollege.sk.ca/>

Course Name		CEU
• First Aid/CPR 'A'		1.6
• WHMIS		0.4
• Confined Space		1.0
• H2S Alive		0.7
• Ground Disturbance		0.7

### 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
--	--	-----

### Potash Corporation of Saskatchewan

<http://www.potashcorp.com/>

Course Name		CEU
-------------	--	-----

• Emergency First Aid – Lanigan	Various	1.0
•		

### Safety Services Manitoba

<http://safetyervicesmanitoba.ca/>

Course Name		CEU
• WHMIS – Flin Flon	Apr. 25-29, '11	0.3
• Fall Protection – Flin Flon	Apr. 25-29, '11	0.6
• Confined Space Refresher/Awareness – Flin Flon	Apr. 25-29, '11	0.6
• Respirator Fit Testing	Apr. 25-29, '11	N/A

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

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

Course Name		CEU
• Water/Landfill Workshop, La Ronge	Apr 10-11/02	1.2
• Drinking Water, Wastewater & Solid Waste, La Ronge	Apr 1–3/03	0.9
• Northern Communities Water Works Workshop: La Ronge	Apr 21-23/04	1.0
<b>SANC: Northern Environmental Workshop: La Ronge,</b>	<b>April 6-8/05</b>	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>	<b>April 5-7/06</b>	
• 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>	<b>Apr/07-09, 07</b>	
• UV Disinfection (Calgon)		0.6
• Water Main 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>	<b>Apr 18/19, 08</b>	
• 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>	<b>Apr 27-29, 09</b>	
• 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>	<b>Apr 14-16, 10</b>	
• 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>	<b>Apr 18-20, 11</b>	
• 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
•		

### Saskatchewan Institute of Applied Science Technologies (SIAST)

<http://www.siastr.sk.ca/>

<b>SIAST Water/Wastewater Technician Program, effective September 2006*</b>		
<b>Course Name</b>		<b>CEU</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

\*Contact SIAST at 306-694-3227 for further details

### Saskatchewan Ministry of Environment – Industrial Branch

<http://www.environment.gov.sk.ca/>

<b>Course Name</b>		<b>CEU</b>
• Water Microbiology Workshop, Saskatoon	March 25, 2011	0.6
•		

### SWWA

<http://www.swwa.ca/pages/index.php>

<b>SWWA Workshops, 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 7/01	0.5
• Filter Surveillance, AWI, Melfort	Apr 24-25/01	1.4
• Iron & Manganese Removal, Moose Jaw	Sept 12/01	0.6
<b>Conference Nov. 2001</b>		
• OH&S Supervision	Nov 1/01	0.3
• Aquifer Protection and Management	Nov 1/001	0.3
• Principles of Chlorination	Nov 1/01	0.3
• Control of BioFouling BOD, BARTS and Well Rehabilitation	Nov 1/01	0.3
• Safe Trenching	Nov 1/01	0.3
• Filter Monitoring and Optimization	Nov 1/01	0.3
<b>SWWA Workshops, 2002</b>		
• Mathematics, Prince Albert	Jan 16/02	0.5
• Mathematics, Fort Qu'Appelle	Jan 17/02	0.5
Sewage Pumps, ITT		
• Kindersley,	March 11-12/02	1.4
• Prince Albert	March 14-15/02	1.4
Basic Municipal Operations		
• Melfort	March 18-19/02	1.4
• Swift Current	March 21-22/02	1.4
Filtration Workshop, AWI		
• Estevan	April 15-16/02	1.2
• Saskatoon	April 18-19/02	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 21-22/03	1.6
• Organics Control, North Battleford	March 12/03	0.8
• Lagoon Maintenance, Wynyard	April 23/03	0.5
• Valve & Hydrant O & M, Mueller, <i>Humboldt</i>	April 30/03	0.5
• <i>Water</i> Regulations, Sask. Environment, Watrous	June 6/03	0.5
<b>SWWA Annual Conference, Saskatoon, Nov.</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 6/03	0.3
<b>SWWA Workshops, 2004</b>		
• Math for Operators, Sask. Environment: Meadow Lake	Jan 14/04	0.3
Water Quality Emergency Planning, Sask. Environment-		
• Melfort	Jan 28/04	0.3
• Weyburn	Feb 4/04	0.3
• Lagoon O & M, Sask. Environment: Swift Current	March 2004	0.3
Calibrating Electronic Test Equipment, Clear Tech		
• Indian Head	May 3/04	0.3
• Shaunavon	May 6/04	0.3
• Tisdale	May 11/04	0.3

• North Battleford	May 13/04	0.3
• Water/Wastewater Inspection Program, Environment Kipling	June 11/04	0.3
SWWA Annual Conference, Nov. 3, 2004 Saskatoon		
• 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	Mar 16/05	0.3
• Kindersley	Mar 23/05	0.3
• Moosomin		
• Waterworks Systems Assessment, Environment: Assiniboia	June 3/05	0.5
• Confined Space Entry, Kin-Kerr Services Ltd.: Saskatoon	Sept 28/05	0.6
SWWA Annual Conference, Nov 2/05 Saskatoon		
• 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, Anthratech Western		0.3
• AWWA Teleconference, "Shrinking Workforce"		0.3
<b>SWWA Workshops, 2006</b>		
Jar Testing:		
• North Battleford,	Jan 23/06	0.5
• Herbert	Jan 26/06	0.5
Reservoir Maintenance:		
• Tisdale	Feb 14/06	0.6
• Weyburn	Feb 21/06	0.6
Distribution System O&M, AWWA Teleconference replay:		
• Prince Albert	Mar 21/06	0.3
• Melville	Mar 29/06	0.3
• UV Disinfection: Biggar	June 2/06	0.6
SWWA Annual Conference, Nov. 1, 2006, Saskatoon		
• Lift Station Pump Design		0.6
• Maintaining the Performance of RO Systems		0.3
• Principles of Chlorination		0.3
• Watemain 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 17/07	0.5
• Distribution System Repair, Rehab. & Replacement; AWWA Video Conf. Shaunavon	Jan 24/07	0.3
• Iron & Manganese Removal, Marcelin AWI	Feb 6/07	0.5
• Membrane Filtration, Manitou Beach; Associated	Feb 28/07	0.5
• Math for Operators, Yorkton, MR2/ClearTech	Apr 18/07	0.5
• Lagoon Operation & Maintenance; Nelson Env. Inc.: Martensville	Apr 25/07	0.5
• Sampling Techniques & Equipment Calibration; Hach Canada Moose Jaw	April 27/07	0.5
• Leak Detection & Audit, Al Turner Consulting, Weyburn/Melville	May 7-9/07	0.5
• Emergency Planning for Water & Wastewater, Nipawin	June 7/07	0.6

SWWA Annual Conference, November 7 & 8, 2007		
• 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
• Water Main Swabbing		0.3
• From Water Sampling to Report		0.3
<b>SWWA Workshops, 2008</b>		
• Lagoon Operation and Maintenance	Mar. 4,5,18, '08	0.6
• Water Conservation	Mar. 27, 2008	0.6
• Math for Operators	Mar. 5, 6, 2008	0.5
• Leak Detection & Audit, AI Turner Consulting Ltd.	May 6 & 8, June 4, 2008	0.5
• Valve & Hydrant – Mueller	April 29, May 1, 2008	0.7
• Filter Operation & Maintenance	April 30 & May 14, 2008	0.6
SWWA Annual Conference, November 5 & 6, 2008		
• 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, ,09	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		
• Melville	March 31, 2009	0.6
• Watrous	April 7, 2009	0.6
• Lagoon Operation and Maintenance		
• Rosetown	Mar. 25	0.6
• Langenburg	Apr. 23	0.6
• Aging Infrastructure, Prince Albert (Golf Tourney)	June 5, 2009	0.5
• Lift Station Operation & Maintenance, Saskatoon	April 29, 2009	0.5
SWWA Annual Conference, November 4-6, 2009		
• 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 will be in Yorkton and North Battleford	May 4/10 May 6/10;	0.7
• Valves, Meters and Piping Attachments will be in Humboldt, Moose Jaw	April 6/10 April 7/10	0.6

<ul style="list-style-type: none"> <li>• High Density Polyethylene (HDPE) Pipe Fusion, Theory &amp; Practical,</li> <li>• Extended – Saskatoon</li> </ul>	Feb. 24, 2010	0.7
<ul style="list-style-type: none"> <li>• Building Procedures with the SOP Tool Kit,</li> </ul>	Apr. 14, 2010	0.6
<ul style="list-style-type: none"> <li>• Fire Hydrant and Valve Maintenance/Repair CLOW Canada, Weyburn</li> </ul>	June 16 <sup>th</sup> , 2010	0.6
<ul style="list-style-type: none"> <li>• Drinking Water Reservoir – Design, Operation and Maintenance, Saskatoon</li> </ul>	May 19, 2010	0.5
<ul style="list-style-type: none"> <li>• Municipal Wastewater Piping System Maintenance, Outlook</li> <li>• Weyburn</li> </ul>	May 11, 2010 May 12, 2010	0.4
<ul style="list-style-type: none"> <li>• Groundwater Issues in Saskatchewan, Swift Current,</li> </ul>	June 4, 2010	0.5
<b>SWWA Annual Conference, November 3-4, 2010</b>		
<ul style="list-style-type: none"> <li>• Couplings, Service Saddles, Tapping Sleeves and Repair Clamps, Saskatoon Sk.</li> </ul>	Nov. 4, 2010	0.3
<ul style="list-style-type: none"> <li>• SCADA Solutions Enhance Productivity of Water Utilities</li> </ul>	Nov. 3, 2010	0.3
<ul style="list-style-type: none"> <li>• Fundamentals of Calibration and Certification of On Line and Lab Instruments in Water &amp; Wastewater</li> </ul>	Nov. 4, 2010	0.3
<ul style="list-style-type: none"> <li>• Regulations, Permits to Operate &amp; Operator Certification, Saskatoon Sk. - SMOE</li> </ul>	Nov. 4, 2010	0.3
<ul style="list-style-type: none"> <li>• Industrial Electrical Safety for Non-Electrical Workers</li> </ul>	Nov. 3, 2010	0.3
<ul style="list-style-type: none"> <li>• Blowers, Air Compressors and Air Dryers</li> </ul>	Nov. 4, 2010	0.3
<b>SWWA Workshops 2011</b>		
<ul style="list-style-type: none"> <li>• Basic Science – AC Pipes Water Distribution Systems –Yorkton</li> </ul>	Mar. 29, 2011	0.6
<ul style="list-style-type: none"> <li>• Maintenance of Valves – Watrous</li> </ul>	April 12, 2011	0.6
<ul style="list-style-type: none"> <li>• Solar Mount – Chlorine Safety - Wakaw</li> </ul>	April 13, 2011	0.6
<ul style="list-style-type: none"> <li>• Cross Connection Control – Saskatoon</li> </ul>	Apr. 29 , 2011	0.6
<ul style="list-style-type: none"> <li>• Lift Station Operation &amp; Maintenance – Saskatoon</li> </ul>	May 9, 2011	0.6
<ul style="list-style-type: none"> <li>• Valves, Meters &amp; Piping Attachments – Wynyard Estevan</li> </ul>	May 10, 2011 May 11, 2011	0.6

### Western Canada Water

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

Course Name		CEU
WCWWA Annual Conference		
Pre-Conference workshops, Saskatoon	Oct 16/05	
<ul style="list-style-type: none"> <li>• Filter Surveillance, AWI (Operations)</li> <li>• Combined Sewer/Storm Sewer Overflows (Technical)</li> <li>• Micro-Biology (Technical)</li> </ul>		0.7 0.6 0.6
WCWWA – AWWA Section/SIAS		
<ul style="list-style-type: none"> <li>• Cross Connection Control Specialist</li> <li>• Cross Connection Control – Recertification</li> </ul>	Feb 18/05 Mar/05	3.5 1.0
Western Canada Section AWWA: SIAS/Kelsey Campus/other venues		
<ul style="list-style-type: none"> <li>• Cross Connection Control Specialist</li> <li>• Cross Connection Control Awareness</li> </ul>		2.8 0.6
<ul style="list-style-type: none"> <li>• Challenges in Monitoring Water Quality in the Distribution System, Edmonton, Alta</li> </ul>	Oct. 23, 2007	0.5
<ul style="list-style-type: none"> <li>• Coagulation &amp; Flocculation Theory / High Rate Clarification Techniques, Winnipeg, Man</li> </ul>	Sept. 24, 2006	0.6
<b>WCWWA Workshops, 2008</b>		
<ul style="list-style-type: none"> <li>• Source Water Protection Specialty, Edmonton Alta</li> </ul>	Oct. 15,16, '08	1.2

• Source Control – Best Practices, Edmonton, Alta.	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 and Treatment		0.3
<b>WCWWA Workshops, 2009</b>		
• Small System Nutrient Removal, Winnipeg MB	Jan. 15,16, '09	1.0
• Odour control in Wastewater Systems, Red Deer Lodge	Jan. 28, 2009	0.5
•		
WCW Annual Conference, Winnipeg, MB. September 2009		
• Where has all our Water Gone, AI 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
WCW Conference Sept. 21 – 24, 2010 – Calgary, Alberta		
• Small System Nutrient Removal – Saskatoon	Apr. 15&16, '10	1.2
• Membrane Technologies for Water & Wastewater Treatment		0.6
• On-Site Hypochlorite Generation as a Chemical Disinfection Alternative – Red Deer Lodge, Red Deer Alberta	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 General Seminars</b>		
• Disinfection By-Products, Calgary, Alberta	Nov. 9, 2010	0.6
• Disinfection of Pipelines and Storage Facilities, AWWA	Various	0.4
<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
•		
•		

**World Water and Wastewater Solutions LTD**

<http://www.owotc.com/>

<b>Courses</b>	<b>Course ID</b>	<b>CEU</b>
<b>Water Treatment</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-30-CT	0.6
• Chlorine Residual Testing	WT-61-CT	0.3
• Gas Chlorination Safety	WT-27-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

### **Historic Workshops & Courses (Pre 2009)**

#### **General Safety Courses/Workshops**

<b>Course Name</b>		<b>CEU</b>
Aerial Lift Operator Certification, Cameco, Cigar Lake, Ives Training		1.0
Areva - McLean Lake Training Dept		
• WHMIS	Various dates	0.2
• Confined Space Entry	Various dates	0.4
Basic Emergency Planning, Humbolt,	May 21-22, '08	1.4
Basic Hoisting and Rigging, CSA of Ontario, Prince Albert		1.4
Competency for Operation of Powered Mobile Equipment (WD & WWC)		1.6
Confined Space 1 & 2, Enform		0.8
Competent Person 1 Training – Regina,	Sept. 22-23,	
• Fall Prevention & Protection	'09	1.4
Confined Spaces - T & G Total Safety		0.7
Confined Space Awareness & Rescue, Eastside Safety & Consulting		0.7
Confined Space Level 1 & 2, Kin-Kerr Training, Kindersley	Feb. 22, 2008	0.8
Confined Space Entry, ATAP		0.6
Confined Space Entry & Sewer Flushing; ATAP		0.6
Confined Space/Respiratory Protection, Sask. Construction Safety Association (SCSA), Carson Environmental and Safety		0.6
Confined Spaces - Basic Awareness, Trans-Care		0.8
Confined Spaces – Basic Worker, Attendant, Superv.; Trans-Care		0.8
Confined Space Entry/Rescue, Trans-Care		1.6
Confined Space Rescue c/w Safety, Spark Watch & SCBA, Level 3, Armor Consulting & Training Ltd.		0.8
Construction Safety Training System – CSTS; SCSA		0.3
First Aid & CPR (once only): Red Cross/St. John Ambulance, Sask		
• Construction Safety Assn (SCSA), North West Regional College		2.0
First Aid & CPR (once only) T & G Total Safety;		
• Heart & Stroke Foundation (BLS “C”)		1.4
Fire Extinguisher Training, Superior Safety, Whitecap First Nation		0.1
Ground Disturbance – Eastside Safety & Consulting		0.7
Ground Disturbance – SE Regional College/Energy Trn.		0.7
Ground Disturbance – North West Regional College		0.4
H <sub>2</sub> S Alive – Trans-Care, Petroleum Industry Trn. Svc		0.7
H <sub>2</sub> S Alive – Eastside Safety & Consulting		0.7
H <sub>2</sub> S Alive – EnForm		0.7

H <sub>2</sub> S Alive – SCSA		0.7
H <sub>2</sub> S Safety - T & G Total 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		0.7
SCBA (Self Contained Breathing Apparatus), Trans-Care		0.6
SCBA - Emergency Breathing, Armour Consulting		0.7
SCBA – Fire Fighters Course, LaRonge,	Feb 27-28, '08	1.2
TDG On-line; Danatec Interactive Inc.;	Feb 8/06	0.2
WHMIS – Eastside Safety & Consulting; Enform; SCSA; Petroleum Safety Training; Public Works Canada; PA Grand Council; ATAP Infrastructure		0.3
•		

### Other Sponsors/Courses/Workshops

Course Name		CEU
Advanced Control Systems Troubleshooting and Maintenance Stantec, Prince Albert Grand Council	July 17–18, '08	1.4
Advanced Reverse Osmosis, Company for Educational Advancement ( <a href="http://www.diwater.net">www.diwater.net</a> )	Oct. 17-19/05	1.6
Alternative Disinfection Technology, METCON, Regina & Saskatoon	Spring/03	0.5
Basic Control Systems Troubleshooting and Maintenance, Stantec, Prince Albert Grand Council	July 15–16, '08	1.4
Biological Nutrient Removal – RTW Saskatoon	Dec. 1-4 <sup>th</sup> , '08	1.4
Building Teams on a Foundation of Trust, TBA, Bob Hornsberger		1.4
Certified Composting Technical Associate Course-SWANA Edmonton	June 5/02	2.6
Chemical Feed Systems – Siemens Water Technologies	Nov. 18, 19, '08	1.3
Chemical Solution Feed Pumps – ClearTech – Kindersley - Moosomin	Mar 16/05 March 23/05	0.5 0.5
Chlorine Analyzers, pH Monitoring, Sodium Hypochlorite and Chemical Feed System Turbidity Monitors – Metcon	June 20, 2006	1.4
Cold Temperature BNR Operations, AWWOA/City of Edmonton	Sept 21-22/06	1.2
Contemporary Slow Sand Filter Operation and Maintenance – Mainstream Water Solutions, Carlyle, SK- April 15, 2010, Aquadeo	April 8, 2009	0.7
Custom Delta V Implementation 1-Emerson Process Management: Saskatoon	Nov/04	3.5
Dale Carnegie Course (Public Speaking, PR, dealing with people, etc) - 3.5 hrs/week for 12 weeks; eg.	April 27/05	2.1
Electronic Technician, Thompson Education Direct	July 2005	1.0
Environmental Compliance Auditing, Golder Associates, Saskatoon	Oct. 7&8, 2008	0.6
Fall Maintenance (Collection Systems), ATAP Saskatoon	Aug 31/06	0.6
Filter Maintenance & Surveillance, ATAP, Rabbit Lake Mine	Dec 6–8/06	0.6
Filtration Theory, Troubleshooting and Filter Management Mosaic Potash Ltd., Esterhazy	Oct 11-12/05	1.2
Fireman Certificate Course & Provincial Exam, Prince Albert Grand Council/Corrections and Public Safety, PA	June 6-8/07	1.4
First Nations Technical Training Session-Saskatoon	May 25–28/04	0.9
Flygt ITT		
- Pumping Station, Small, O & M, Saskatoon	Feb 14-15/05	0.5
- Pumping Station, Large, O & M, Saskatoon	Feb 16-17/05	1.0
Fork Lift Safety, Clark/A.R. Williams (Bob Wolbaum):Regina	Sep 7/05	0.6
Future of Safe Drinking Water-Safe Drinking Water Foundation,- Saskatoon	Sept 14-16/04	0.3

Galvanize It! WCWWA Western Environment Ass'n ,-Saskatoon	April 6/05	0.5
Gas Chlorination, ATAP Infrastructure Saskatoon - Two sessions	Jan 22-25/07	1.3
Hydrants & Valves O & M -- CLOW Canada: - Estevan	Sept 28/05	0.7
Hydrants & Valves O & M -- CLOW Canada: - Swift Current	Sept 29/05	0.4
Hypochlorination & Feeder Maintenance, ATAP		0.6
Iron and Manganese Removal – ATAP	Dec. 5, 2007	0.6
Jar Testing, Cleartech -Kipling	Jan 10/07	0.5
Leak Detection; Echologics Engineering Inc.		1.5
Mechanical Seals (Take the Mystery out of), Flowserve/EDA Env Various dates, incl. Feb 8-9 & Oct 4-5/05 (IACET)		1.1
Membranes & Filters in WT & WWT, WCWWA Calgary	Jan 29/07	0.4
MicroSoft Excel 2003; South East Regional College (Ed2Go)		1.2
MS Excel Basic, Fred Pryor, Feb. 15-16, 2008, Nov. 15, 16, 2008		0.8
MS Excel Advanced, Fred Pryor, Feb. 15-16, '08, Nov. 15, 16, '08		0.8
Myers Pump School, Pentair Water Trn. Inst., Calgary	Feb 23/07	0.5
North American Association of Pipeline Inspectors: <a href="http://www.naapi.ca">www.naapi.ca</a>		
• CCTV Certification Course, Regina	Apr 21-22/05	1.2
• Reviewer's Course, Regina	Apr 21-22/05	1.2
OH&S Level 1 Training, Regina	Nov 15/05	0.5
OH&S Level 2 Training, Saskatoon	Feb 18-19/05	0.5
OH&S Level 2 Training, Regina	Nov 16/05	0.5
On-line Analyzers: WCWWA, Edmonton	Oct 16-17/06	0.6
Overhead Travelling Crane: Sask Power training	(June-Oct/06)	3.0
Overhead Travelling Crane: Sask Power - Classroom session only	8-Jun-07	1.6
PCL Training Forum, Engineering Institute of Canada, Saskatoon		1.2
Principles of Chlorination, ClearTech; Mosaic		0.3
Principles of Effective Leadership, University of Regina Regina, Jan. 4-5 and Jan. 27-28/07		1.3
Protocol for Safe Drinking Water in First Nation Communities		0.7
Public/Private Partnerships & Asset Management WCWWA	Oct 17/04	0.5
Pumps - Theory, Operation and Maintenance: Battleford Tribal Council, Jackfish Lodge	Oct 16-20/05	3.0
Quality Control & Quality Assurance: SIAST, Kelsey Campus: On-line course		2.2
Reverse Osmosis Basics Part 1, Safe Drinking Water Foundation Touchwood Tribal Council, Punnichy, SK	June 12, 2008	0.5
R. O.s Water Treatment: David H Paul Inc. SWC Moose Jaw	Dec. 13-14/06	1.6
Rural Water Ass'n, Utah: In-Depth Training	Feb. '04	0.9
Safety for Water and Wastewater Workers, ATAP:Prince Albert	Jan 9 & 11/07	0.6
Safety Management, Sask. Construction Safety Ass'n	Feb 24/04	0.3
Safe-T-Disc Construction Safety Passport, Sask. Construction Safety Ass'n (interactive video/computer course)		0.4
Skill Path – How to Excel at Managing & Supervising People:-Regina	Apr 26-27/07	1.0
Spill Response Training, Cliff Holland, Spill Management Inc	Oct 28/05	1.6
The Banff Management Course, PA Douglas & Associates		1.0
The Canadian Institute; Water Treatment/Distribution Conference(s)		0.0
Valves/Hydrants for WD Systems-- Yorkton/Mueller	Sept 8/04	0.5
Water Analysis for Operators (NAIT); Don Byers, Algold Consultants • -North Battleford (BTC), Mar 31-Apr 1	Apr 28-29/07	1.2
Water Distribution Field Camp, W. C. Section AWWA-Moose Jaw	Aug 24-25/04	1.2
W D Servicing & Repair_CPWA/Mueller Canada: Yorkton	May 16/05	0.7
Water Distribution System Maintenance, ATAP		0.3
Water Environment Federation (WEFTEC 06), Dallas, TX	Oct. 21-25/06	0.6
- Water Reuse & Conservation workshop	Oct 21/06	0.6

- Biosolid Management workshop	Oct 22/06	0.6
Water Leak Detection, Echologics Engineering Inc.:2 day; TBA	TBA	1.2
Water Leak Detection Listening Course, Echologics Eng. Inc	TBA	0.6
Water Main Swabbing, ATAP: CAMECO McArthur River Mine	Feb 7/07	0.6
Water Meter & Piping Restraint Workshop; Mueller Flow Control - Water Meter Training Program (Neptune); + Mechanical - Restraint Design (PSI Pipeline Supply Int'l Inc.) Saskatoon & Regina	May 8/07 May 9/07	0.3
Water Quality Conference; SDWF: Edmonton * ( <i>Must be signed in for each session for consideration of CEU requests CEU would vary for each operator.</i> )	Sept 26-27/07	1.4
WaterTrax Operator Training Course		0.7
Water & Wastewater Automation, WCWWA (Process Control) Episode I, Saskatoon, Episode II, Regina	Nov 26-27/03 Jan 21-22/04	1.2 1.2
Water & Wastewater Automation, BTC/NAIT (Process Control) Episode I, Cochin, Episode II, Cochin,	May 23-24/06 May 25-26/06	1.2 1.2
Water Treatment Workshop - PFRA/Agriculture Canada, La Ronge	May/04	0.5
Water Well Decommissioning, Sask Watershed Authority Abbey	Nov 7/06	0.3
•		
•		