

ALBERTA ENVIRONMENT APPROVED CEUs/TRAINING

Revised: October 2006

CONTINUING EDUCATION UNIT (CEU)

1 CEU is 10 contact hours of participation in an organized relevant continuing education experience (training) under responsible sponsorship, capable direction, and qualified instruction as approved by the Alberta Water and Wastewater Operator Certification Advisory Committee.

CEUS 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 Alberta Environment website:

<http://www3.gov.ab.ca/env/water/DWQ/certification.html>

or on the Alberta Water and Wastewater Operators Association website at: www.awwoa.ab.ca

ALBERTA ENVIRONMENT
RECOGNIZED CEU's/TRAINING

AWWOA - Chlorination Workshop prior to 2003	3.0
AWWOA – Chlorination Workshop 2003 & up	2.0
AWWOA - Collection & Distribution System Seminar	2.0
AWWOA – Corrosion Control for Operators	1.5
AWWOA - (NAIT, SAIT, Lethbridge CC, Red Deer CC, Medicine Hat CC) Cross Connection Control Workshop	3.0
AWWOA - Cross Connection Control Seminar	1.5
AWWOA - Fluoride Seminar	0.5
AWWOA – Filter Surveillance	1.2
AWWOA - Hydrant & Valve Seminar prior to 1995	1.0
AWWOA - Hydrant & Valve Seminar 1995 & up	1.5
AWWOA - Introduction to W/WW Operations (Basic)	3.0
AWWOA - Lagoon Seminar	1.0
AWWOA - Level I Certification Course Parts "A & B" (or correspondence course)	5.0
AWWOA - Level II Certification Course Water	1.5
AWWOA - Level II Certification Course Wastewater	1.5
AWWOA - Level II Water & Wastewater Certification Course (or correspondence course)	3.0
AWWOA - Management & Supervision for Operators 1986 - 2001	3.0
- (Management & Supervision for Operators) 1984/85, 2002 -	2.0
AWWOA – New Developments in Water Treatment Technology	0.6
AWWOA – New Developments in Wastewater Treatment Technology	0.6
AWWOA – (AWWOA Annual) Operator Seminar (Banff)	1.5
AWWOA - Pumps; Theory, Operation & Maintenance (Pump Workshop)	3.0
AWWOA - RBC Course/Homestudy	2.0
AWWOA - Safety Programs of Operators - after 1984	2.0
- (Safety Seminar - 1984)	1.0
AWWOA - Safety Procedures & Practices Course	1.5
AWWOA - Small Systems Seminar	2.5
AWWOA - Wastewater Treatment Operator "A" (Introductory) Homestudy	2.0
AWWOA - Wastewater Treatment Operator "B" (Intermediate) Homestudy	3.0
AWWOA - Water Treatment Operations "A" (Introductory)	3.0
AWWOA - Water Treatment Operations "B" (Intermediate)	3.0
AWWOA - Water Treatment Operations	3.0
AWWOA - Water & Wastewater Laboratory	2.0 each
AWWOA - Small Water Systems Operation Course	0.6
AWWOA - Small Wastewater Systems Operation Course	0.6
AWWOA – Water Well Rehabilitation Workshop	1.2
AWWOA – Southern Alberta Municipal Water Seminar	0.3
AWWOA – Level III/IV Water Treatment Certification Preparation Course	3.0
AWWOA/ATAP - Level I Water Treatment Certification Preparation Course	2.4
AWWOA/WCWWA – If presenting a presentation to either conference	1.0
AWWOA/RUSA - Small Water Treatment Workshop	0.4

Operators *instructing* relevant, approved, courses/training shall be awarded CEUs based on the CEUs of the course plus 1.0 CEU. This can only be used once for delivering the *same course*. As well, CEUs used for renewal of a certificate are subject to cyclical and ½ CEUs renewal rules.

AE – Alberta Environment Laboratory Data Quality Assurance Program for Small Municipalities	0.6
AE – Drinking Water and Public Health: Provincial Stakeholder Discussion & Information Forums	0.3
AE – 2005 Alberta's Environment Conference (April – Edmonton)	1.5
AE – 2006 Alberta's Environment Conference (May – Edmonton)	1.5
AE – Regional Services, Central Region - Municipal Water and Wastewater Workshop (Feb 2004)	0.5
AE – Full Cost Accounting Reporting Workshop 2006	0.5
Alberta (Service) Best	0.5

Alberta Construction Safety Association (ACSA) Courses/Training:	
Safe Trenching, Excavation	0.6
TDG Train the Trainer	0.6
Flag person Training	0.2
Temporary Traffic Control	0.3
Construction Safety Training System	0.4
Supervisor Training in Accident Red. Tech. (START)	0.6
AB OHS Legislation Awareness Course	0.6
Construction Environmental Awareness	0.3
Construction Safety Training System (CSTS)	0.4
Small Employer Health & Safety Management Course	0.6
Principles of Health & Safety Management	0.6
Auditor Training Program	1.2
WHMIS Train the Trainer	0.6
Flagger Train the Trainer	0.6
Confined Space Entry Awareness	0.6
ACSA Prime Contractor Course	0.6
Fall Protection Awareness	0.6
Safe Trenching, Excavation and Ground Disturbance	0.6
Temporary Traffic Control Field Application	0.6

The following Alberta Construction Safety Association Course have been reviewed but NO CEUs awarded:

- Basic Instruction Techniques
- Fall Protection Train the Trainer Industrial/Commercial or Wood Frame
- Fall Protection End-User Industrial/Commercial or Wood Frame
- Pipeline Construction Safety Training
- Small Employer Ride Along Program
- Construction Safety Administration (CSA)
- E-Learning Programs
- Back Injury Prevention Program (BIPP)
- Substance Abuse Prevention Program (SAPP)
- Effective Claims Management
- Road builders Safety Training System (RSTS)
- Small Employer Certificate of Recognition Program (SECOR)
- Standard Certificate of Recognition Program (COR)
- Construction Safety Officer Program (CSO) (National Standard)

Alberta On-site Wastewater Management Association- On-site Wastewater Install Phase One Course	1.8
Alberta Infrastructure and Transportation Water Treatment Practices 2006	0.3
Alberta Infrastructure & Trans., AB Roadbuilders & Heavy Constr. Association, APWA 2006 Conference	0.3
Workshops at Conference:	
Crisis Communication	0.5
Trends in Water and Sewer	0.5
Winter Maintenance Operations Training for Equipment Operators	0.5
Anachemia Science Good Lab Management & How Quality Control Samples Can Help Your Lab	0.6
AWI Filter Surveillance Course (Condensed version for City of Red Deer)	0.6
Alberta Municipal Health and Safety Association Courses (AMHSA)	
Safety Basics	0.6
Safety Basics Auditor	1.2
Leadership for Safety Excellence	1.2
Confined Space Entry	0.3
Trenching Safety	0.3
Joint Health and Safety Committee	0.3

Accident/Incident Investigation	0.3
Alberta Municipal Health and Safety Association Courses (AMHSA) Continued	
Partnerships Program Building	0.6
Partnerships Program Evaluation	1.2
WHMIS Train the Trainer (Only if No WHMIS)	0.6
Flagperson Train the Trainer	0.6
Inside Worker Safety	0.6
Prime Contractor	0.6
Hazard Assessment and Control	0.6
Construction Safety Training Systems	0.4
Health & Safety Program Development Course	1.2
Formal Workplace Inspections Course	0.3
Backhoe/Loader Operator Safety (WD or WWC Operators Only)	0.6
Overview of OHS Act Regulations and Code	0.6
Workplace Violence Prevention Course	0.6
Auditor Recertification Workshop	0.5
All Out Group, Scott Specialist Level Maintenance Course	0.3
Alberta Workers' Health, Safety & Compensation Accident Control Course for Supervisors	1.4
B. C. Water & Waste Course	2.5
B. C. Water & Waste Cross Connection	2.5
B. C. Water & Waste Seminar	1.5
Brenntag Canada – Chlorine Awareness	0.2
Can-Sling OBI/Capital Safety Group – General Awareness	0.3
Can-Sling OBI/Capital Safety Group – Equipment Inspection	0.3
Canada Training Group Inc. - PLC Maintenance and Troubleshooting Level I	1.2
Canada Training Group Inc. - PLC Maintenance and Troubleshooting Level II	1.2
Canadian Emergency Preparedness College Emergency Site Management	2.5
The Canadian Institute “Best Practices for Water Treatment in Alberta”	1.0
The Canadian Institute “A Complete Guide to Facilities Upgrading (Workshop)”	0.5
The Canadian Institute “Water Treatment & Water Distribution in Alberta”	1.2
The Canadian Institute “Essential Practices for Effective Source Water Protection” Workshop (or given by Golder & Associates as a separate workshop)	0.5
The Canadian Institute “Best Practices for Drinking Water Treatment in the Athabasca Region”	1.0
The Canadian Institute “Western Water Treatment & Distribution Strategies for Sustainable Water Mang. 2006	0.6
Canadian Institute of Public Health Inspectors – Water Utility Regionalization	0.8
Capital H ₂ O Systems – Chemical Feed Systems & Cl ₂ Analyzers: Sizing, Operation & Maintenance (Metering Pump and Controller Training)	0.6
CDI Corporate Education Services	0.6
Chamco – Introduction to Centrifugal Pumps Seminar (1 day)	0.6
Chinook College – Supervisory Training & Responsibility (Course #37221)	1.5
Clarity Multimedia – Personal Protective Equipment	0.0
Clarity Multimedia – WHMIS Your Safety Net	0.2
Clow Canada Fire Hydrant Maintenance & Repair Seminar	0.3

ConAgra Foods Ltd. – Key Concepts of Safety	1.0
ConTech Safety and Training	
Rigging Safety Orientation for Water & Wastewater Employees Level I	0.3
Hoisting & Rigging for Water & Wastewater Employees Level II	0.6
Rigging for Field Water & Wastewater Operators Level III	1.2
Rigging for Overhead Track Crane Water & Wastewater Operators Level III	1.2
Fire Awareness for Fire Extinguisher for Water & Wastewater Employees	0.3
Hazardous Spill Response and Clean Up for Water and Wastewater Employees	0.6
Hazard Assessment and Safe Work Planning for Water and Wastewater Employees	0.6
High Voltage Electrical Safety for Water/Wastewater Employees	0.3
High Voltage Electrical Safety for Water/Wastewater Employees Level II	0.6
High Voltage Electrical Safety for Water/Wastewater Employees Level III	1.0
Overview of the Water Utility System	0.6
Overview of the Water and Wastewater Utility Systems	1.0
Overview of the Electrical and Water Utility System in Alberta	1.0
Trenching Safety Level I	0.3
Trenching and Shoring Level II	0.6
Trenching Rescue Level III	1.0
Confined Space Entry Code of Practice Level I	0.3
Confined Space Entry for Water & Wastewater employees Level II	0.6
Confined Space Entry/Rescue for Water/Wastewater Employees Level III	1.2
Fall Protection Orientation for Water/Wastewater Employees Level I	0.3
Fall Protection Orientation for Water/Wastewater Employees Level II	0.6
Fall Protection Orientation for Water/Wastewater Employees Level III	1.0
Rubber Tire Front End Ladder Safety Orientation for Water/Wastewater Operators Level I (CEUs limited to WD/WWC operators only)	0.4
Backhoe Safety Orientation for Water/Wastewater Operators Level I (CEUs limited to WD/WWC operators only)	0.4
Skidsteer Safety Orientation for Water/Wastewater Operators Level I (CEUs limited to WD/WWC operators only)	0.4
Manlift Safety Orientation for Water/Wastewater Operators (CEUs limited to WD/WWC operators only)	0.4
Rough Terrain Forklift Safety Orientation for Water/Wastewater Operators (CEUs limited to WD/WWC operators only)	0.4
Forklift Safety Orientation for Water/Wastewater Operators Level I (CEUs limited to WD/WWC operators only)	0.4
Boom/Crane truck Safety for Water/Wastewater Operators Level I (CEUs limited to WD/WWC operators only)	0.6
Aerial Platforms Safety Orientation for Water/Wastewater Operators Level I (CEUs limited to WD/WWC operators only)	0.4
Dalhousie University – Certificate in Water Treatment Operations (must complete all)	7.8
Dayatec Education Services TDG Training Course	0.3
DYNAMO Equipotential Bonding for Hydro-Vac	0.3
DBS Environmental – Awareness Training of Spill Response and Waste Material Handling	0.3
Drouin Learning Solutions Communication in Conflict – Skills for Leaders	1.4
Echologics Engineering Inc. (echo logics) Water Leak Detection Course	1.2
Edmonton Waste Management Centre of Excellence – Construction & Demolition Waste Course	0.0
Edmonton Waste MCE/NAIT/AWWOA/ACRWC Dissolved Air Flotation (DAF) Operations	1.2
<u>Edmonton In-House Water Treatment (modified Sacramento) E. L. Smith/Rossdale</u>	

Edmonton In House Training Level I	7.0
Edmonton In House Training Level II	15.0
Edmonton In House Training Level III	5.0
Edmonton In House – Activated Sludge Process Control 1999 (2 day)	1.2
Edmonton In House – Activated Sludge Process for Maintenance Staff (1 day)	0.6
Edmonton – Cold Temperature BNR Operations (2 day)	1.2
Edmonton Water & Wastewater Collection System Operators 1 st Annual Conference (Feb 2007)	0.6
Edmonton Activated Sludge Process Course (5 day, 2000)	4.0
EPIC Water Chemistry	0.6
EPIC Membrane Separations to Cut Water Treatment Costs	1.8
EPIC Interpretation & Enforcement of Construction Contracts	1.2
EPIC Bidding, Evaluation, Negotiation & Contract Award Procedures	0.6
Fairview College (Water & Wastewater) 1992	
25.0	
First Aid – Up to September 30, 2005 (<i>Current</i>) – One time only	2.0
First Aid – Effective October 1, 2005, (<i>Current</i>) – One time only	1.2
First Aid (subsequent years or RENEWAL only, not to be accumulated)	0.6
Foremanship (GMCC for City of Edmonton)	3.0
Foremanship Level II, 8 day (NAIT for City of Edmonton)	4.0
Foremanship Level II <i>Compressed</i> (NAIT for City of Edmonton)	2.0
Gateway Safety Services – Overhead Crane Operation Training	0.6
George Washington University – Managing Projects in Organizations (Medicine Hat)	1.8
Gescan Automation Group – Cimplicity ME Logic Developer PLC Level I	1.2
Gescan Automation Group – Cimplicity PE Introduction Level I	0.9
Gowlings- Alberta Health & Safety Due Diligence for Managers & Supervisors	1.2
Global Training Centre - (5 day Safety Training)	2.4
Global Training Centre - Confined Space Pre-Entry	0.3
Global Training Centre - Confined Space Entry	0.5
Global Training Centre - Ground Disturbance Level II	0.6
City of Grande Prairie Health, Wellness & Safety Program (2002)	0.6
GMCC – The Art of Supervision (SUPR 0800)	0.3
GMCC – Effective Communication for Supervisors (SUPR 0805)	0.3
GMCC – Developing High Performance Teams (SUPR 0806)	0.3
GMCC – Occupational Health & Safety	0.3
GMCC – Effective Conflict Management (PRDV 0806)	0.3
GMCC – Coaching for Results (SUPR 0823)	0.3
GMCC – Critical Thinking Skills (SUPR 0807)	0.3
GMCC – Creating a Positive Work Environment (SUPR 0829)	0.3
GMCC – Service Excellence (PRDV 0813)	0.3
GMCC – Effective Performance Appraisals (SUPR 0803)	0.2
Health Canada – Federal Drinking Water 1 st Annual Workshop (Feb 05)	1.2
Health Canada – 2 nd Annual Federal Drinking Water Providers Workshop (Nov 05)	1.2
HSE Integrated Confined Space Entry Level II	0.6
Industrial Productive Technology (72 hours NAIT)	3.0

H ₂ S Alive	0.5
Hatscan – Zero Injuries Best Practices	0.6
Hatscan – Zero Injuries Risk Assessment	0.6
Hatscan – Zero Injuries Behavioral Safety	0.6
John Brooks/Gorman-Rupp Pump Maintenance Seminar (1/2 day)	0.3
Ken Blanchard Companies – Situational Leadership II	1.2
Kristian Electric Ltd. Overhead Crane Operator Training	0.4
Lakehead University Chemical Engineering Technologist	2 years
City of Lethbridge Water Treatment Plant Course	2.0
Lethbridge Community College (LCC) (Renewable Resources)	90.0
LCC (Conservation Enforcement)	30.0
LCC – Power/Machine Tool Safety Training	0.3
LCC – Management for Supervisory Personnel	3.0
LCC - Fluoride Seminar	0.2
LCC – Inside Worker Safety	0.6
LCC - Health & Safety Program Development Course	1.0
LCC – Confined Space Entry & Rescue	0.6
LCC – Formal Workplace Inspection	0.3
LCC – Accident/Incident Investigation	0.3
LCC - Fall Protection	0.6
LCC- Trenching Safety	0.3
LCC – Basic Electrical Safety	0.6
LCC – Joint Health & Safety Committee	0.3
LCC - Construction Safety Training Systems 2 hr	0.2
LCC - Construction Safety Training Systems 4 hr	0.4
LCC – Overview of OH & S Act, Regs & Codes	0.6
LCC - Hazard Assessment & Control	0.6
LCC – Spill Prevention & Control	0.6
LCC - Emergency Procedures	0.6
LCC - Backhoe/Loader Operator Safety (for WD or WWC operators only)	0.6
LCC/Mount Royal College – Project Management Certificate Program	5.0
Malaspina College after 1983	82.0
Malaspina College before 1983	90.0
Maintenance Management Professional (MMP Certification Program) offered at:	
Northern Lakes College (Slave Lake and Edson)	
Red Deer College	
Bow Valley College – Calgary	
Keyano College – Fort McMurray	
Other colleges from other provinces as well	
Total Certification Program	12.0
Individual Modules as follows:	
Module 1	0.8
Modules 2 though 8 (each worth)	1.6
Manitoba Schools	3.0 each
Manitoba Seminar	1.5
City of Medicine Hat	
Incident Investigation – 1 day	0.6

Incident Investigation – ½ day	0.3
Medicine Hat Community College Leadership Program (City of Medicine Hat Employees)	7.0
2 Day First Aid	1.2
Emergency First Aid (1 day)	0.6
Confined Space Entry and Rescue	0.5
H2S Alive	0.5
Hazard Assessment and Control	0.3
City of Medicine Hat Courses Continued	
TDG	0.3
WHMIS	0.0
O H & S Management Skills (Leadership in Safety Excellence)	0.6
Electrical Power System Awareness & Safety (Magna Eng.)	0.6
Environment Health & Safety Committees (Joint Work-site Risk Management) for Environment, H & S	0.3
Environmental Risk Management	0.3
Lift Truck Operation Training	0.3
Work Group Leader Program	4.5
Respiratory Protection Program	0.2
High Voltage Safety for Non-Electrical Traded	0.6
Medicine Hat College Water Meter Course	0.6
Medicine Hat College Introduction to Surveying-Leveling	0.6
Michigan State (Management Course)	6.0
Military Courses:	
WFE (WSPOL) Tech QL 3 (TQ3) (Apprentice Course)	53.0
WFE (WSPOL) Tech QL 5 (TQ5 or TQ5A) (Journeyman Course)	33.0
WFE (WSPOL) Tech QL 6A (TQ6A)	25.0
WFE (WSPOL) Tech QL 7 (TQ7)	56.0
Civilian Petroleum, Oils & Lubricants Maintenance Course	6.0
Civilian Laboratory Procedures Training Course	15.5
DND – Supervision & Leadership Course (Jan/Feb 05)	3.0
P107 Informal Discussion	0.0
Writing Skills Level 2	0.6
Millwright I (90 hour course NAIT)	3.0
Mount Royal College Bachelor of Applied Industrial Ecology	4 years Post Secondary
Mount Royal College Environmental Technology Diploma	2 years Post Secondary
NAAPI CCTV Reviewers Course (Course #1)	1.0
NAAPI CCTV (Course #2)	1.0
NAIT Applied Science	8.0
NAIT Electrician (Completed – Journeyman)	10.0
NAIT Instrumentation Technology Certification Program	45.0
<i>OR INDIVIDUAL COURSES AS FOLLOWS:</i>	
Basic Instrumentation 1ET110	4.0
Process Measurements 1ET210	4.0
Instrumentation Workshop 1ET220	2.5
Applied Science 1ET260	4.0
Computer Fundamentals 1ET240	4.0
Industrial Microcomputers 1ET340	4.0
PC Repair/Upgrading CNT495	4.0
Basic Electricity EET120A	4.0
Basic Electricity EET130B	4.0
Instruments EET232	4.0

General Chemistry CHS 205	10.0
Technical Mathematics ASM 147	8.0
NAIT – Civil Engineering Technology	90.0
NAIT - Surveying Technology Diploma	45.0
NAIT – Materials Engineering Technology	45.0
NAIT - City of Edmonton (Aqualta, EPCOR)	
Math for Foremen	1.5
Communication for Foremen	3.6
Reading and Writing	1.5
Role of the Foremen	3.0
Analyzing Effectiveness & Decision Making (Level III)	2.4
Electrical Update (Industrial Main. Multiskilling Program electrical Strand) SMM378	2.0
Millwright Updating (Industrial Main. Multiskilling Program Millwright Strand) SMM440	4.5
Instrumentation	6.0
Measurement & Control	9.5
Process Analyzers I	6.0
Process Analyzers II	6.0
NAIT – Project Cost Management (PMC107)	1.3
NAIT – Project Communications Management (PMC108)	1.3
NAIT – Working With Ideas II (GFS102)	1.3
NAIT – Working With Numbers (GFS103)	1.3
NAIT – Working With Teams (GFS104)	1.3
NAIT – Group Facilitation Trials (GFS105)	1.3
NAIT – Pulp & Paper Technician Correspondence Course	6.0
NAIT/SAIT – Instrument Mechanic Program	45.0
NAIT – Water Analysis for Operators January 2004 SRE135	1.0
NAIT – Mechanics Physics ASP235	3.5
NAIT – Heat & Electric Physics ASP335 & Fluid Physics ASP435 (completion of both)	3.5
NAIT – Effective Communication ASE140, ASE350, ASE580 (completion of all)	3.6
NAIT – Personal Skills Introduction to Management	3.6
NAIT – Business Practices RSB319	2.0
NAIT – Construction & Estimating CON321	2.0
NAIT – Machine Shop IP302	3.0
NAIT – Fuels & Lubricants CHEM341	4.0
NAIT – Property of Materials MT604	3.6
NAIT – Preventative Maintenance HE321	2.0
NAIT – Basic Drafting, Sketching, & Blueprint Reading EDD402	3.0
NAIT - Industrial Electric I IE503	4.0
NAIT – Industrial Electric II IE603	4.0
NAIT – Technical Math ASM119	5.0
NAIT – Technical Math ASM220	5.0
NAIT – Business Management Certificate Program	16.0
NAIT – Administrative Control	4.2
NAIT – Labour Relations	4.2
NAIT – Estimating I CON270	4.0
NAIT – Pneumatic Instrumentation SEE105	6.0
<u>NAIT/Westerra Institute (Graduate)</u>	90.0

NOTE: NAIT/Westerra graduates will **not** get CEUs credited to them for taking the following courses:

AWWOA Pumps: Theory, Operation & Maintenance (Pump Workshop)
AWWOA Chlorination Workshop
AWWOA Small System Water and/or Wastewater
All Sacramento Courses except those indicated with*
WEF - Wastewater Treatment Introductory

WEF - Wastewater Treatment Intermediate
 WEF - Rotating Biological Contactor (R.B.C.) Course

NAIT (Outreach) After 1998

WWW100	Basic Sciences	10.0
WWW203	Support Systems	9.0
WWW206	Technical Management and Supervision	5.0
WWW101	Water Distribution I	6.0
WWW201	Water Distribution II	6.0
WWW102	Water Treatment I	8.0
WWW202	Water Treatment II	9.0
WWW103	Wastewater Collection Systems I	6.0
WWW 213	Wastewater Collection Systems II	5.0
WWW104	Wastewater Treatment I	9.0
WWW204	Wastewater Treatment II	9.0
WWW105	Water and Wastewater Laboratory Analysis I	2.0
WWW205	Water and Wastewater Laboratory Analysis II	2.0
WWW140	Computer Software Applications	3.0
WWW221	Standard First Aid	1.0
WWW 105 (New 2005)	Water & Wastewater Laboratory Analysis I	3.6
North American Society for Trenchless Technology – Good Practices Seminar		1.2
North Safety - North Respirator Train-the-Trainer Course		0.2
Occupational Health & Safety Confined Space Entry		.5
Okanogan College Water Technician Program (Okanogan University College – Water Quality)		2 yrs
Olds College – Land Sciences Program/Composting Diploma		22.0
Ontario Environment - MOE Confined Space Entry		2.0
Ontario Environment - MOE Basic Gas Chlorination		3.0
Ontario Environment - MOE Pump Workshop		3.0
Ontario Environment - MOE Activated Sludge Process		2.5
Ontario Environment - MOE Surface Water Treatment		2.5
Petroleum Industry Training Service Spill Responder		1.0
Polar Bear Corporate Education Solutions – Managing Projects		0.9
Prevention Excavation Damage: What You Can't See Can Hurt You - Satellite Videoconference		0.4
Priority Solutions - Environment First Response & Incident Management		0.4
Priority Solutions - Emergency Initial Spill Response		0.3
Priority Solutions - Incident/Accident Investigation		0.6
Priority Solutions - Environmental Initial Response		0.3
Pumper & Cleaner Environmental Expo 2006 (Nashville)		1.3
Ray Kenny Environmental/Alberta Pacific – Activated Sludge Operations		1.8
Red Deer College - Applied Municipal Engineering		5.0
Red Deer College - The Write Course		1.5

Red Deer College - Management Seminars for Supervisors Program	3.0
Rockhurst University Continuing Education Centre – Essentials of Communication with Tact & Finesse	1.2
RUSA Annual Conference	1.0
RUSA/AWWOA - Small Water Treatment Workshop (2005)	0.4
RUSA/AWWOA – Basic Pump Theory/Seals & Packing (2006)	0.4
Sacramento University Correspondence	
Water Treatment Homestudy Parts I, II, & III Prior to 1988	9.0 each
Water Treatment Plant Operation, Volumes I, II & III After 1988	9.0 each
Small Water Systems Volume I & II	4.5 each
Small Wastewater Systems Volume I & II	4.5 each
Wastewater Treatment Homestudy Parts I, II, & III	9.0 each
*Advanced Wastewater Treatment	9.0
*Industrial Wastewater Treatment Volume I	3.0
*Industrial Wastewater Treatment Volume II	3.0
Operation & Maintenance of WWC Systems Volumes I & II	4.5 each
Water Distribution System Operation & Maintenance	4.5
*Treatment of Metal Wastestreams	2.5
*Treatment of Wastewater from Electroplating Metal Finishing & Printed Circuit Board Manufacturing	2.5
Pretreatment Facility Inspection	6.0
Utility Management prior to 2003	4.5
Utility Management after 2003	2.0
Manage for Success	4.5
WAT703B Facilities	0.9
SAIT - Process Operations Course	45.0 CEUs
SAIT – Applied Management Certificate Program	18.0
SAIT - Telecommunications Tech.	30.0
SAIT - Engineering Graphics Technology (Drafting)	90.0
SAIT - Heavy Equipment Technician	45.0
SAIT - Industrial Instrumentation Section 1	15.0
SAIT – Welding Engineering Technology	45.0
SAIT – Special Boiler Operators Course (PWEN 236)	2.0
SAIT – Chemistry 210	6.4
Saskatchewan Courses:	
Basic Plant Operations	1.2
Chemical Solution Feed Pumps	0.6
Chlorine Gas Systems	2.0
Distribution Pumps	1.2
Distribution Systems O & M	0.6
Iron and Manganese Removal	1.2
Lagoon Operation	0.5
Well Operation	0.6
Sault's Environmental Technician - Water Program	90.0
Selkirk College Management Skills for Supervisors	7.0
Singer Valve Inc. – Automatic Control Valve Application & Operation Training (October 2004)	1.2
Strathcona County - Managing Multiple Priorities	0.6
Strathcona County - Basic Supervisory Development	1.2
Strathcona County - Supervisory Development Skills I – Leadership Roles	0.3
Strathcona County - Supervisory Development Skills II – Priority Management	0.3

Strathcona County - Supervisory Development Skills III – Working in Political Environment	0.3
Strathcona County - Supervisory Development Skills IV – Put it in Writing	0.3
Strathcona County - The Principles of Supervision	0.3
Strathcona County - The Fundamentals of Leadership	0.3
Strathcona County – OH & S Supervisor Awareness	0.3
Strathcona County - Appraising Performance	0.2
Strathcona County - Effective Conflict Management for Supervisors	0.3
Strathcona County – FISH First in Service Here	0.3
Strathcona County - Creating a Positive Work Environment	0.3
Strathcona County - Critical Thinking Skills	0.3
Strathcona County Courses Continued	
Strathcona County – Coaching for Results	0.3
Strathcona County - Developing High Performance Teams	0.3
Strathcona County - Managing & Mastering Change	0.3
Strathcona County – Building Common Ground	0.6
Summit Valve & Controls – Introduction to Automatic Control & Valve	0.3
Syncrude Internal Training	
Filter Surveillance Course	1.2
Gas Detection Course	0.3
Air Brake Q-Endorsement	0.0
Safe Work Permit Course	0.6
Time Management	0.6
Overhead Crane	0.4
Rigging Review	0.2
Emergency Response Awareness	0.3
WHMIS Awareness	0.3
TDG	0.2
Chlorine Safety Course	0.2
Chlorine Safety Course (Field)	0.0
Chemical Safety Training	0.4
Forklift Operator	0.6
Common Fall Protection	0.6
Analytical Troubleshooting KT	1.0
FFTS-S200	0.0
FFTS-S300	0.0
FFTS-S400	0.0
FFTS-S500	0.0
Reliability Centered Maintenance Training	1.2
Electrical Switching	0.6
U of A - Construction Administration Certificate	15.0
U of A - Environmental Resources Management Certificate	15.0
U of A - Environment Geology Course – (4252) (24 hours)	2.4
U of A – Managing a Technical Environment (ENG M 650)	3.6
U of A – Engineering Economic Analysis (ENG M 620)	3.6
U of A Extension Courses:	
- Fundamentals - Phase I	3.9
- Occupational Hazards - Phase II	4.0
- Administrative Practice - Phase III	5.1
- Applied Hydrology	2.0
- Principles of Ecosystems	2.0
- Microbiology Introductory 293	4.0
- Introduction to Statistics 241	3.0
- Organic Chemistry 250	13.0
- Introduction to University Chemistry 200	13.0

U of A - Certificate in Municipal Management & Leadership	5.0
U of A Supervisory Development	
Principles of Supervision	1.0
Interpersonal Communications	1.0
Creating Effective Work Groups	1.0
The Supervisor as a Trainer	1.0
Interviewing Techniques for Supervisors	1.0
Supervisory Summation	1.0
Supervising in the Union Environment	1.0
Vaughan Company Inc. (all 3 courses need to be completed):	
Understanding a Centrifugal Pump Curve, Do's & Don'ts for Centrifugal Pumps, & Troubleshooting Pumps	0.6
WEF – Comprehensive Pretreatment Course	1.8
Western Canada Water & Wastewater Association Conferences	1.5 each
WCWWA Water Correspondence Course before 1979	10.0
WCWWA Water Correspondence Course after 1979	15.0
WCWWA Math Correspondence	9.0
WCWWA Seminar/Workshops:	
Cogeneration at Wastewater Treatment Plants is it right for your plant?	0.5
Iron and Manganese Removal Technical Transfer Seminar	0.7
Taste and Odour Control Seminar	1.2
Disinfection Seminar	1.2
Hydrant and Mains Seminar	.7
Activated Sludge	1.8
Water Filtration	1.5
Biological Nutrient Removal Seminar	1.2
Trenchless Technologies for Sewer Rehabilitation Seminar	0.4
Treatment Optimization Workshop	0.5
WCWWA/AWWA Teleconference December 7, 1995	0.5
WCWWA Benchmarking for Water Utilities	0.3
WCWWA Biosolids (Sludge) Reuse Seminar	0.6
WCWWA Automation Seminar	1.1
WCWWA/AWWA Filter Course (May 2002)	1.0
WCWWA Automation Workshop Episode 1 (2003)	0.9
WCWWA Automation Workshop Episode 2 (2003)	0.9
WCWWA/ AWWA - Out of Sight, Out of Mind: Distribution System Rehabilitation	.6
WCWWA Hands on BNR 2002	1.2
WCWWA Membrane Issues, Water, Wastewater & Reuse	0.5
WCWWA Industrial Monitoring, Source Control & Pretreatment	0.5
WCWWA UV Disinfection – Water and Wastewater Applications	0.6
WCWWA Conference Workshops (2004)	
➤ ISO Laboratory Accreditation – Sharing the Stories of Success	0.5
➤ Watershed Management Workshop	0.5
➤ Private Public Partnerships and Asset Management How can it work for you	0.5
WCWWA/AWWA – Emergency Response Planning Seminar October 2004/March 2005	1.2
WCWWA Microbiology Workshop October 05	0.6
WCWWA Combined Sanitary Sewer Overflow Workshop October 05	0.6
WCWWA/APC Navigating the Regulatory Framework (June 05)	0.5
WCWWA/WEF 3 rd Canadian Organic Residuals & Biosolids Management Conference	1.2
WCWWA/AWWA Vulnerability Assessment Workshop	0.7
WCWWA Filter Inspection & Surveillance Workshop (October 05)	0.7
WCWWA/APC Storm water Management Seminar (February 06)	0.0
WCWWA/APC Water and Wastewater Monitoring Roundtable	0.5

WCWWA/APC Safety Awareness for Utility Operators	0.4
WCWWA Collection & Distribution Seminar1.0	
WCWWA Water/Wastewater Treatment – Distribution/Collection Seminar 2006	1.0
WCWWA Workshops at Water/Wastewater Treatment – Distribution/Collection Seminar 2006	0.4 each
WCWWA/APC On-Line Analyzers (October 2006)	1.0
WCWWA/APC Wetlands Workshop (October 2006)	1.1
WCWWA/APC Corrosion in the Water & Wastewater Industries (November 2006)	0.6
WCWWA/APC Membranes & Filtration in Water & Wastewater (January 2007)	0.5
WCWWA 2006 Conference Workshops	0.5

Weldwood – Hinton Division – Plant Operations	0.6
Weldwood – Hinton Division – Safety Training Day 2004	0.6
Weldwood – Hinton Division – Safety Training Day 2006	0.3
Weldwood – Hinton Division – Water Treatment Lab QA/QC Systems	0.3

Westerra Utility Officer Program 36.0

WestPoint Safety Services Inc. H₂S Alive 0.5

Zenon 5th Annual Drinking Water User's Group (Sept 2005) 1.0

*ENTIRE POWER ENGINEERING STREAM **CURRENTLY UNDER REVIEW to be updated Spring '07******

5 th Class Power	3.0
4th Class Power Engineer (Steam)(NAIT or SAIT)	9.6
3rd Class Power	3.0
2nd Class Power	3.0
1st Class Power	10.0

**Firemans Ticket 9.0

**Building Operator "A" 8.6

**Building Operator "B" 7.6

****NOTE:** These cannot be added together, but the CEUs for the highest achieved will be given

Miscellaneous

Newfoundland Millwright	2.0
Water Well Drillers Course	10.0
Aircraft Engineers Technology	27.0
Maintenance Management Seminar (Paul Juul and Associates of U. of A.)	2.4
6th National Conference on Drinking Water	1.0
Yellowknife Chlorination Workshop	2.4
ALMS 8 th Annual Workshop	1.2
Ultimate Supervisors Workshop	1.0
International Cities Management Association	4.2
APWA Alberta Chapter Introduction to Construction Inspection	1.0
APWA Alberta Chapter Public Works Construction Inspection	1.8
Zenger Miller Frontline Leadership	6.4
North American Society for Trenchless Technology Video Conference	0.3
Zee Weed Operator Training Program Pre-Commissioning Course	3.0
Roadway Safety Training Institute, Traffic Control Course	1.2
The Future of Water Treatment International Conference Sept 2004	1.0

The following have been assessed and credit **MAY** been given as indicated:

ASET Accreditation

- Related Technician - 1 year Post Secondary Education
- Related Technologist – 2 years Post Secondary Education
- Semi Related – 50%

APEGGA

Related P. Eng. – 4 years Post Secondary Education

Semi Related – 50%

****NOTE:** The Certification Advisory Committee limited the number of “Management Area” & “Computer” CEUs allowed at Level III and IV. For Level III Certification a candidate will be limited to 10.0 CEUs in the Management **or** Computer areas and for Level IV a candidate will be limited to 20.0 CEUs (TOTAL) in the management or computer area.

American Water Works Association (AWWA) On-line Course	Course Code	CEUs
Hearing Conservation	AA01B001	0.1
Permit-Required Confined Spaces	AA01B005	0.1
Respiratory Protection	AA01B007	0.1
Asbestos (General Industry)	AA01B008	0.1
Forklift Safety	AA01B011	0.1
Lockout / Tagout	AA01B013	0.1
Scaffolds (Construction)	AA01B015	0.1
Introduction to OSHA	AA01B016	0.1
Materials Handling (Construction)	AA01B017	0.1
Excavations (Construction)	AA01B018	0.1
Personal Protective Equipment (Construction)	AA01B019	0.1
Electrical Safety (Construction)	AA01B020	0.1
Storm Water Pollution Prevention	AA02B001	0.2
Pollution Prevention	AA02B002	0.3
Spill Prevention Control and Countermeasure (SPCC)	AA02B003	0.3
Applied Mathematics	AF07C001	0.3
Basic Mathematics	AF07C002	0.7
Coagulation, Flocculation and Sedimentation Basics	AF07C003	0.3
Disinfection Basics	AF07C004	0.3
Filtration Basics	AF07C005	0.3
Hydraulics	AF07C006	0.8
Distribution System Materials and Equipment	AF07C007	0.3
Water Main Installation	AF07C008	0.3
Distribution Service to Customers	AF07C009	0.3
Water System Mechanical Equipment	AF07C011	0.2
Fundamentals of Chemistry for Water Professionals	AF07C013	0.8
Security Planning for Drinking Water Systems: An Operational Approach	SEC001	0.2

CITY OF CALGARY IN HOUSE TRAINING
APPROVED CONTINUING EDUCATION UNITS

#	COURSE NAME	CEU
1.	Achieving Extraordinary Customer Relations	1.2
2.	Employment Equity	0
3.	Discipline	0.2
4.	Effective Presentation	1.2
5.	Field Ambassador	0.6
6.	Front Line Leadership Level I	2.0
	Level II	1.2
	Level III	0.9
	Level IV	1.5
	Level V	0.6
7.	Let's Write	1.5
8.	Preventing Sexual Harassment	0
9.	First Aid/CPR	2.0
10.	WHMIS I	0
11.	WHMIS II	0.2
12.	Stress Management SHAW 110	0.4
13.	Targeted Selection	1.8
14.	Time Management MGMT 180	0.4
15.	Confined Space Entry	0.5
16.	Accident Investigation Training	0.6
17.	Cross Connection Awareness	0.3
18.	Cross Connection Control Testers	2.5
19.	Butt Fusion Training	1.2

20.	Safety Program Orientation	0
21.	Problem Solving For Supervisors	1.2
22.	Back Care Training	0
23.	Transportation Of Dangerous Goods	0.6
24.	Pipeman Refresher (one time only)	0.6
25.	Pipeman Training Program	6.0
25a	Pipeman Training For Foremen (if #25 <u>not</u> taken)	3.0
26.	Self Contained Breathing Apparatus	0.2
27.	Shoring	0.6
28.	Basic Foreman Course	2.5
29.	Introduction to Information Processing	0
30.	Introduction to IBM and DOS	0
31.	PRV Engineering Selection Seminar	0.7
32.	Maintenance Management System (MMS) Training	1.5
33.	Leak Detection Specialist IV	3.4
34.	Worksite Temporary Traffic Control	0.5
35.	University of Calgary Management Certificate Program	30.0
36.	Confined Space Entry – Code of Practice	0.9
37.	Managing Runoff WATT 300	1.5
38.	Introduction to Waterworks & Wastewater WATR 100 (Prior to September 06)	0.4
39.	Intro to Potable Water Quality WATQ 100	0.4
40.	Self Care SHAW 100 (Prior to September 06)	0.4
41.	Safety Legislation in the Workshop SAFE300	1.2
42.	Introduction to Confined Space SAFE 240	0.6
43.	Leading Change MGMT 270	0.4
44.	Organizational Framework MGMT 271	0.4
45.	Managing & Communicating Change MGMT 272 (Note if combined with MGMT 271- 0.6)	0.4
46.	Safety for Foreman MGMT 260	0.8
47.	Overview of Recruitment & Selection MGMT 250	0.0
48.	Recruitment & Selection MGMT 272	0.4
49.	Coaching, Mentoring & Empl. Dev. MGMT 230	0.8
50.	Managing HR & Maximizing Staff Co. MGMT 232 (Note if combined with 230 – 1.2)	0.8
51.	Leading Effective Work Teams II MGMT 220	0.8
52.	Managing Effective Work Teams II MGMT 222 (Note if combined with 220 – 1.0)	0.8
53.	Effective Reporting for Supervisors MSMT 212	0.4
54.	Forms Administration MGMT 211	0.4

55.	Meetings MGMT 160	0.4
56.	Managing Conflict MGMT 170	0.4
57.	Problem Solving MGMT 130	0.4
58.	Effective Presentations MGMT 140	0.8
59.	Leadership & Motivation MGMT 120	0.8
60.	Effective Work Teams MGMT 110	0.4
61.	Effective Leadership MGMT 100	0.4
62.	Behaviour at its Best HRES 200	0.4
63.	Communication Skills COMM 200	0.8
64.	Effective Reporting COMM 110	0.4
65.	Organization Information HRES 112	0.0
66.	Corporate Values HRES 110	0.00
67.	Environmental Awareness ENVR 100	0.00
68.	Mainsaver COMP 238	0.8
69.	Introduction of UEP Viewer COMP 230	0.3
70.	Hazard Assessment Principles SAFE 310	0.4
71.	Hazard Assessment Application SAFE 311	0.4
72.	Managing Taste & Odour Using KmnO4 WATP 330	0.4
73.	Dechlorination Using SBS WATP 340	0.4
74.	SOP Trainer	8.5
75.	City of Calgary Field Trainers Development Course	3.0
76.	City of Calgary Leadership & Team Development Training Workshop	4.0
77.	Overhead Crane Safety (SAFE 406)	0.6
78.	EnviroSystem Policies at Work (ENVR 104)	0.2
79.	Incident Investigation Fundamentals (SAFE 312)	0.3
80.	Conducting an Incident Investigation (SAFE 314)	0.3
81.	Supervisory Training Program (Calgary Parks & Rec)	2.0
82.	Wastewater Treatment Processes (TPCC 109)	1.0
83.	Troubleshooting Skills (TPCC 100)	2.0
84.	Pump Operation (TPCC 101)	2.0
85.	Basic Pneumatics (TPCC 102)	2.0
86.	Schematics & Symbols (TPCC 103)	2.0
87.	Blueprint Reading (TPCC 104)	2.0
88.	Plant Piping Systems (TPCC 105)	2.0
89.	Measurement Systems (TPCC 106)	2.0
90.	Wastewater Equipment Maintenance (TPCC 107)	1.0

91.	Industrial Safety & Health (TPCC 108)	2.4
92.	AENV Certification Preparation Course (ENVR 300)	1.6
93.	Introduction to Technical Writing (COMM 303)	0.2
94.	Return to Service (WATQ 200)	0.4
95.	SPL Synergen Overview (COMP 270)	0.2
96.	ESCII – APP: Practical Approaches for Erosion & Sediment Control in Calgary	0.6
97.	System Design (WATS 400)	1.6

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CEUS Assigned for the
City of Edmonton/EPCOR/ Water Network Maintenance

#	COURSE NAME	CEU
1.	WHMIS Training Transportation of Dangerous Goods	0.6
2.	Water Sampling and Testing	0.2
3.	Confined Space Entry Training	0.8
4.	Operation Procedures - Flow Testing	0.4
5.	Operation Procedures - C-Valve Testing	0.4
6.	Operation Procedures - Anode Testing	0.2
7.	Operation Procedures - Thawing/Cleaning Distribution Valve Casings	0.2
8.	Operation Procedures - Distribution Valve Operation	0.2
9.	Operation Procedures - Transmission Valve Operating	0.5
10.	Operation Procedures - Hydrant Flushing/Winter Checking	0.4
11.	Anodes	0.8
12.	Main Repairs	1.4
13.	Water Service Repairs	1.2
14.	Valve Repairs	1.2
15.	Transmission Valve Repairs	0.9
16.	Hydrant Repairs	1.2
17.	Meter Training - Threaded/Flanged Meter Installation	0.3
18.	Meter Training - Testing Small Meters	0.8
19.	Meter Training - Testing Large Meters	0.8
20.	Meter Repairs	1.3
21.	Trenching & Shoring Training	0.5
22.	AWWA Norwood Foundry Isolation & Control Valves Butterfly/Ball/Globe	0.5

23.	TDG Carriers, Shippers and Handlers	0.5
24.	Leadership 2000	4.0
25.	Construction Safety Training 1 st Time	.4
26.	Construction Safety Training Cyclical Training (every 3 years)	.2
27.	Standard First Aid Cyclical Training First Time Only	1.2
28.	First Aid (Update) (subsequent year or RENEWAL only, not be accumulated)	0.6
29.	TDG Carriers, Shippers & Handlers Cyclical Training (every 3 years)	.2
30.	Facilitating for Results	1.5
31.	Emergency Site Plan Procedures (CSAZ731)	3.2
32.	Ergonomic Training	0.0
33.	Defensive Driver	0.0
34.	Confined Space Rescue	2.4
35.	Coaching for High Performance	1.5
36.	Behaviour Based Safety (BBS) Observation Training Advanced Safety Training	1.5
37.	Safe Start Program Advanced Safety Awareness Training	.7
38.	Becoming a Master Instructor	5.0
39.	Air Brakes Course	0.00
40.	Barricade & Traffic Control Advanced Safety Awareness	.4
41.	Backhoe Loader Training Program (will be given to WD.WWC Operators ONLY)	10.0
42.	Written Communication	1.5
43.	Work permit System Training Regulator OH & S	.4
44.	Unidirectional Flushing Training	1.4
45.	Team Effectiveness	2.0
46.	Priority Management	1.5
47.	Analyzer/Meter Safety Program Advanced Safety Awareness Training	3.0
48.	Treatment Processes Training Program Advanced Safety Awareness Training	2.0
49.	Chemical Safety Program	4.0
50.	PowerPoint, Word Intro, Word Inter, Excel Intro, Excel Intern	0.0
51.	Fire Awareness Training	0.4
52.	Hoisting and Rigging Part I	.4
53.	Hoisting and Rigging Part I (Cyclical every 5 years)	.2
54.	Hoisting and Rigging Part II	.4
55.	Hoisting and Rigging Part II (Cyclical every 5 years)	.2
56.	Hoisting and Rigging Part III	.4
57.	Hoisting and Rigging Part III (Cyclical every 5 years)	.2
58.	Construction Safety Training Systems	0.6

59.	Trench Training	1.2
60.	Quality Management System	1.8
61.	Environmental Management System	1.2
62.	Pipeman Certification	1.2
63.	Pipeman Refresher	0.3
64.	Leading People for Results I	1.2
65.	Leading People for Results II	1.2
66.	Leading People for Results III	1.2
67.	Leading People for Results IV	1.2
68.	Leading People for Results VII	1.2
69.	Guiding Employee Performance	1.2
70.	Interest Based Problem Solving	1.2
71.	Safety 2000 (EPCOR Water Services)	2.4
72.	Pumps & Pumping (A. Bowen Instructor)	1.6
73.	From Frontline to Foreman, Dealing with the Tough Stuff	2.4
74.	Specialist Training for Hazardous Material	2.0
75.	Gas Detection	0.3
76.	Sewer Service Televising/Locating	0.6
77.	Sewer Mainline Televising	0.6
78.	WHMIS	0.3
79.	Confined Space Entry – Rescue, Substructure Maintenance, Drainage Mechanical Facilities, Deep Manholes, Shallow Manholes (maximum ONE only)	0.6
80.	Confined Space Entry UPDATES – Rescue, Substructure Maintenance, Drainage Mechanical Facilities, Deep Manholes, Shallow Manholes (maximum ONE only)	0.3
81.	Equipment Operator Training (Part I Classroom)	0.6
82.	City of Edmonton Fundamentals of Supervisor Training Module	2.4
83.	Leadership for Results (Formerly Leadership 2000) – 3 days	1.8

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