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## **Water and Wastewater Refresher Courses – Spring 2019**

Red River College (RRC) will be offering a full suite of Class 1 & 2 certification exam preparation courses in the spring of 2019. In addition to the Winnipeg offerings, some courses are being held regionally through our college affiliates.

### **Winnipeg Based Courses**

All Winnipeg based courses and associated certification exams are being held at RRC's Notre Dame Campus; the course costs include parking and lunches. With the exception of the Foundations Course (5 days of instruction / no exam) all courses run Monday through Thursday (8:00 am – 4:00 pm) with the exam being administered on the Friday morning.

**Winnipeg Based Course Registration:** For course registration or other general information, please contact Louise Wood at (204) 632-3017 [lowood@rrc.ca](mailto:lowood@rrc.ca) .

**CANCELLATION POLICY:** Students who cancel their registration 7 days or less before the start of the course will be charged a \$100.00 fee.

### **Certification Exam Registration; Please Read !!**

RRC Certification Preparation Course fees **do not include the exam cost**. The certification exams are administered by Manitoba Sustainable Development (SD); not RRC. **It is the course participant's responsibility to register & pay for the exam (On-line payment available) no later than 14 days prior to the exam date.** Information & exam registration forms are available thru the link: <http://www.gov.mb.ca/conservation/eal/certification/exams.html> . For more information, please contact Donna Garcia at (204) 945-7065 or [Donna.Garcia@gov.mb.ca](mailto:Donna.Garcia@gov.mb.ca) .

### **Water and Wastewater Foundations (Course Code: WATR-1007 and ID 183845)**

*Five-day course: **April 8 – 12, 2019***

*Fee: \$1049.00 Registration deadline: **March 25, 2019***

This introductory course provides operators with the in depth foundational knowledge and skills required for success in writing ABC certification exams in all 4 disciplines. The course is recommended, but optional, prior to taking a Class 1 discipline specific training course. Topics include; Industry related Mathematical and General Science skills (chemistry, microbiology, hydraulics and electricity), Safety and Administration / Management, and Equipment / Support systems are all gone over in detail in relation to the certification exam requirements.

**Who should take the Foundations Course?** RRC has developed a diagnostic quiz designed to objectively assess an individual's fundamental skill set that will be required for effective participation in a Certification Exam Preparation Course. **All individuals that have not taken the Foundations Course in the past or have not successfully passed a Water and Wastewater Certification exam should complete the quiz.** To acquire a copy of the diagnostics quiz, please contact Louise Wood at (204) 632-3017 or [lowood@rrc.ca](mailto:lowood@rrc.ca) .

### **Water Treatment I (Course Code: CONF-1077 and ID 183846)**

*Four-day course: **April 29 – May 2, 2019***

*Fee: \$869.00 Registration deadline: **April 19, 2019***

*Exam Date: **May 3, 2019, RRC***

This course is intended as preparation for the Manitoba Water Treatment Class I Certification Exam. Topics include: A **brief** review of Foundations material, Hydrologic cycle, Ground water systems, Water quality parameters / guidelines & regulations, Conventional Treatment, Slow sand filtration, Fluoridation, Iron & Manganese removal, Scaling & Corrosion, Taste & Odor control, Disinfection / Chlorination, Testing / Sampling, & Water Treatment mathematical calculations.

### **Water Distribution I & II (Course Code: WATR-1010 and ID 183847)**

*Four-day course: **May 6 - 9, 2019***

*Fee: \$869.00 Registration deadline: **April 26, 2019***

*Exam Date: **May 10, 2019, RRC***

This course is intended as preparation for the Manitoba Water Distribution Class I or Class II Certification Exams. Topics include: A **brief** review of Foundations material, Hydrologic cycle, Ground water, Distribution system purpose / design, Piping / Trenching / Bedding, Scaling & Corrosion, Cathodic protection, Hydrants / Valves /Service connections / Meters, Cross connection / Backflow prevention, Chlorination, Testing / Sampling, & Water Distribution mathematical calculations.

### **Wastewater Collection I & II (Course Code: WATR-1003 and ID 183848)**

*Four-day course: **May 13 – May 16, 2019***

*Fee: \$869.00 Registration deadline: **May 3, 2019***

*Exam Date: **May 17, 2019, RRC***

This course is intended as preparation for the Manitoba Wastewater Collection Class I or Class II Certification Exams. Topics include: A **brief** review of Foundations material, WW characteristics, Collection system purpose / design, Piping / Trenching / Bedding, Odor & Corrosion control, Manholes / Lift stations, Cross connection / Backflow prevention, Pipe inspection / cleaning / rehabilitation, Chlorination, Testing / Sampling, & Wastewater Collection mathematical calculations.

### **Wastewater Treatment I (Course Code: CONF-1065 and ID 183849)**

*Four-day course: **May 27 – May 30, 2019***

*Fee: \$869.00 Registration deadline: **May 17, 2019***

*Exam Date: **May 31, 2019, RRC***

This course is intended as preparation for the Manitoba Wastewater Treatment Class I Certification Exam. Topics include: A **brief** review of Foundations material, WW characteristics / parameters / guidelines, Wastewater stabilization pond design & maintenance; Mechanical treatment processes, Sludge handling, Odor control, UV / Chlorination, Testing / Sampling, & Wastewater treatment mathematical calculations.

### **Water Treatment II (Course Code: CONF-1089 and ID 183850)**

*Four-day course: **June 3 – 6, 2019***

*Fee: \$869.00 Registration deadline: **May 24, 2019***

*Exam Date: **June 7, 2019, RRC***

This course is intended as preparation for the Manitoba Water Treatment Class II Certification Exam. Topics include: A very **brief** review of Foundations material, Surface water treatment systems, Water quality parameters / guidelines & regulations, Lime/soda ash softening, Ion exchange, Rapid sand filtration, Membrane filtration, Fluoride, Taste / odor control, Scaling / Corrosion, UV / Ozone / Chlorination disinfection, Testing / Sampling, & WT2 mathematical calculations.

### **Wastewater Treatment II (Course Code: CONF-1067 and ID 183851)**

*Four-day course: **June 10 – 13, 2019***

*Fee: \$869.00 Registration deadline: **May 31, 2019***

*Exam Date: **June 14, 2019, RRC***

This course is intended as preparation for the Manitoba Wastewater Treatment Class II Certification Exam. Topics include: A very **brief** review of Foundations material, WW characteristics / parameters / guidelines, Lagoons, Mechanical treatment processes, Sludge handling / digestion / dewatering / disposal, Odor control, UV / Chlorination, Lab equipment / Testing / Sampling, Nutrient removal, & Wastewater treatment 2 mathematical calculations.

### **Regionally Based Courses: *Brandon - Assiniboine Community College –***

**Brandon Based Course Registration:** For course registration or general information, please contact Brad Hack (204) 725-8700 ext. 6162 or [hackb@assiniboine.net](mailto:hackb@assiniboine.net) .