



**with
Kyle Werner**

**Technical Workshop:
Inland Sedimentation
& Erosion**

July 17th
email: ce@mcft.ca
phone: 506-458-0649
visit our website at ce.mcft.ca

**MARITIME COLLEGE OF
FOREST
TECHNOLOGY**
A Leader in Forestry Education Since 1946

**\$249
+ HST**

- Water Control Measures when Working in a Watercourse (How to work in isolation of water flow)
- Erosion and Sedimentation Control
- Materials Used for Structures in Watercourse
- Possible Impacts of Watercourse Alterations
- Erosion Protection – Calculating Rip-Rap Size
- Project Management / Planning

Maritime College of Forest Technology

1350 Regent Street

Fredericton, NB

E3C 2G6

Phone: (506) 458-0649

Fax: (506) 458-0652

Email: ce@mcft.ca

Website: ce.mcft.ca

Todd MacPherson, CFT

Supervisor of Continuing Education

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TECHNICAL WORKSHOP: INLAND SEDIMENTATION & EROSION

FROM: MARITIME COLLEGE OF FOREST TECHNOLOGY (MCFT)

SUBJECT: Friday, July 17th, 2020 course offering.

The Maritime College of Forest Technology's Department of Continuing Education is pleased to offer **Technical Workshop: Inland Sedimentation & Erosion** on Friday, July 17th, 2020. The course will be held at the Fredericton Inn. Specific course details, including an agenda, instructor profile, application form, and tuition costs, are included in the attached announcement.

When working in and around watercourses, people can encounter various circumstances where significant impacts on the environment have the potential to occur. Based on public demand, this course has been created to help identify potential risks and then use best management practices, equipment, and materials to mitigate sedimentation and erosion.

Technical Workshop: Inland Sedimentation & Erosion is a new course for 2020 and participant numbers are limited to twenty-five (25) per course. We hope that you will add this training to your schedule and take away new knowledge and put it into practice.

If you have any questions, please call (506) 458-0649 or email ce@mcft.ca.

Sincerely,



Todd MacPherson,
Supervisor of Continuing Education

TECHNICAL WORKSHOP: INLAND SEDIMENTATION & EROSION

- Date:** Friday, July 17th, 2020
- Duration:** This is an eight (8) hour training session that includes frequent breaks for nutrition.
- Location:** Fredericton Inn, 1315 Regent St., Fredericton, NB, E3C 1A1
- Format:** This workshop will be held in an informal manner, conducive to discussion and questions.

Topics to be Covered:

- Water Control Measures when Working in a Watercourse (How to work in isolation of water flow)
 - Sizing Requirement
 - Cofferdams
 - Temporary Diversions
 - Dam and Pump

- Erosion and Sedimentation Control
 - Environmental Considerations
 - Planning Considerations
 - All Sites: Preventing Problems
 - For Larger Projects: Erosion and Sedimentation Control Plans
 - Sedimentation and the Environment
 - Design Principles
 - Bank Stabilization
 - Naturalized
 - Vegetated
 - Vegetated mats
 - Silt Curtains
 - Silt Booms

- Materials Used for Structures in Watercourse
 - Fresh concrete can be toxic to aquatic life
 - Treated Wood
 - Rock material

- Possible Impacts of Watercourse Alterations
 - Erosion

- Sedimentation
 - Water Quality
 - Riparian Zone
- Erosion Protection – Calculating Rip-Rap Size
 - Determining Water Velocity
 - Project Planning/Management

Learning Outcomes:

Raise awareness of and generate discussion about anthropogenic impacts on water flow, water quality and habitat.

Instructor:

Kyle Werner graduated from the University of New Brunswick, where he studied Arts, Science, Engineering and obtained his Bachelor's Degree in Forestry and Environmental Management. During this time, he gained environmental knowledge covering several different areas of study; however, it was watershed management that he found most interesting. He wrote and defended a thesis study on sedimentation and erosion within the CFB Gagetown training area.

After graduation, Kyle was employed with J.D. Irving as a Road Construction and Maintenance Supervisor for several years before accepting a position with the Department of National Defence (DND) – as a Project Coordinator at CFB Gagetown. Kyle is currently the Range and Training Area Project Manager with DND. His diverse expertise includes all of the maintenance and civil construction related activities involved with maintaining a large network of roads.

Included in Kyle's responsibilities is the design and installation of both small and large-scale watercourse crossings such as single round culverts, bottomless arch culverts, and single-span bridges. It also includes large road rebuilds, cross culverts, ditching, vegetation management, etc. Along with maintaining a large land base, Kyle has also been part of many complex land and stream restoration projects that occur on Base. With all of the varied civil construction projects that Kyle has been a part of, it has provided many years of experience in soil stabilization and remediation as well as sedimentation and erosion control.

Given Kyle's experience, he has had the opportunity to instruct for the Maritime College of Forest Technology for nearly ten years. Courses delivered have involved the Watercourse Alteration Certification Training, Road Construction, and Sedimentation and Erosion related courses.

In his spare time, he lends his expertise to UNB Forestry students by providing class lectures to explain the road building and watercourse crossing applications to forest roads as well as the planning that goes into managing a very large network of roads.

Kyle's easy-going approach to teaching and interaction with the class allows his knowledge and experience to be transferred to students.

Limitations: Enrolment is limited to twenty-five (25) participants on a first-come, first-served basis. A seat is considered booked once we receive a completed registration form (see below). **The registration deadline is July 8th, 2020.**

Course Materials: MCFT will be responsible for supplying all training needs, manual, padfolio, pen, and pencil.

Nutrition: MCFT will provide two nutrition breaks. You must provide your own lunch.

Tuition: \$249 + HST

COVID-19 Rules:

The province of New Brunswick is currently under an Emergency Order due to the ongoing pandemic. Here are our COVID-19 Protocols to attend our training:

1. You must be residing in New Brunswick (NB) to attend.
2. If you reside outside of NB or reside in NB Zone 5, you must quarantine for two weeks before attending.
3. If you have recently travelled outside of NB or to NB Zone 5, you must quarantine for two weeks before attending.
4. If you have been in direct contact with any of 2, 3, or 4 above, then you must quarantine for two weeks before attending.
5. If you or any of your direct contacts are exhibiting any of the following symptoms, then you must not attend. From the NB Government Website:
 - Fever above 38°C or signs of fever (such as chills).
 - A new cough or worsening chronic cough.
 - Sore throat.
 - Runny nose.
 - Headache.
 - A new onset of fatigue.
 - A new onset of muscle pain.
 - Diarrhea.
 - Loss of sense of taste or loss of sense of smell.

- In children, purple markings on the fingers or toes. In this instance, testing will be done even if none of the other symptoms are present.
6. Always maintain a 2-metre social distance buffer while on our courses.

TECHNICAL WORKSHOP: INLAND SEDIMENTATION & EROSION
is equivalent to 7 Continuing Forestry Education Credits

