



COURSE OUTLINE

NRT103

1

Prepared: Dave Bronson Approved: Sherri Smith

Course Code: Title	NRT103: FIRE MANAGEMENT
Program Number: Name	5230: FORESTRY TECHNICIAN
Department:	NATURAL RESOURCES PRG
Semester/Term:	17F
Course Description:	<p>This course will follow the Ontario Ministry of Natural Resources and Forestry (OMNR&F) SP-100 Firefighter training. Students will gain theoretical and practical knowledge of basic forest fire suppression techniques and methods used in Ontario today.</p> <p>Students will gain hands on experience with forest fire suppression equipment and ensure it is retrieved to OMNR&F standards. In addition, the student will demonstrate proficiency in the operation of power pumps, power pump troubleshooting, hose lays, application of water, hand tool line construction, helicopter slinging, safety, teamwork, preparedness, camping, cooking, heating, lighting using propane devices in a practical environment.</p> <p>Students who attain a mark of 70% or better on the written exam in this course and achieve 100% attendance at the field exercises will be eligible for certification provincially and nationally.</p>
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Vocational Learning Outcomes (VLO's):	<p>#7. Select, operate, troubleshoot and maintain tools and equipment in a variety of environmental conditions and in accordance with safety and operating standards.</p> <p>#8. Work independently and in a collaborative environment while applying effective teamwork, leadership and interpersonal skills.</p>
Essential Employability Skills (EES):	<p>#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p> <p>#8. Show respect for the diverse opinions, values, belief systems, and contributions of others.</p>

Please refer to program web page for a complete listing of program outcomes where applicable.



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2

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#9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
#10. Manage the use of time and other resources to complete projects.
#11. Take responsibility for ones own actions, decisions, and consequences.

General Education Themes: Social and Cultural Understanding
Science and Technology

Course Evaluation: Passing Grade: 50%, D

Other Course Evaluation & Assessment Requirements: 70% required on final exam for SP 100 certification. 100% attendance required at six practical field trips.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Final Exam	100%

Books and Required Resources: SP 100 Manual by OMNR&F

Course Outcomes and Learning Objectives:

Course Outcome 1.

Safely operate and retrieve forest fire suppression equipment to the OMNR&F SP100 standard.

Learning Objectives 1.

Demonstrated ability to follow equipment inventory control procedures.
Demonstrated ability to safely operate, maintain and retrieve forest fire equipment (pumps, hose, hand tools, camp equipment, Radios etc.).
Demonstrated ability to safely participate in a practical helicopter slinging exercise.
Demonstrated ability to sharpen and maintain an axe, pulaski and fire shovel.
Demonstrated ability to roll hose into a melon based on SP100 standards.
Successfully demonstrate bush orientation skills.

Course Outcome 2.

Describe and demonstrate fire use and fire suppression tactics and strategies.



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Learning Objectives 2.

Explain and demonstrate fire line tactics (direct and indirect attack, hose lays, pump set ups, troubleshooting).
Explain the application and limitations of the fire equipment in various fire management scenarios.
Describe the role of aircraft and heavy equipment in fire management.
Understand the components of the Incident Command System (ICS) used on the fire.
Explain fire management operations including preparedness, initial and sustained attack, mop up and retrieval.
Demonstrate safe and efficient work habits in a teamwork environment.
Understand the importance of safety gear, hard hat, steel toe boots, gloves, goggles/safety glasses, hearing protection.

Date:

Thursday, August 31, 2017

Please refer to the course outline addendum on the Learning Management System for further information.