



COURSE OUTLINE: NRT151 - SP100 CERTIFICATION

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Approved: Bob Chapman - Dean

Course Code: Title	NRT151: SP100 FOREST FIRE FIGHTER CERTIFICATION
Program Number: Name	5230: FORESTRY TECHNICIAN
Department:	NATURAL RESOURCES PRG
Academic Year:	2025-2026
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:	42
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Substitutes:	NRT103
Vocational Learning Outcomes (VLO's) addressed in this course:	<p>5230 - FORESTRY TECHNICIAN</p> <p>VLO 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>VLO 8 Work independently and in a collaborative environment while applying effective teamwork, leadership and interpersonal skills.</p> <p>VLO 9 Communicate technical information to a variety of stakeholders in oral, written, visual and electronic forms.</p>
Essential Employability Skills (EES) addressed in this course:	<p>EES 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>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p>
Please refer to program web page for a complete listing of program outcomes where applicable.	



	EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.
	EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
	EES 10 Manage the use of time and other resources to complete projects.
	EES 11 Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation: Passing Grade: 50%, D

A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.

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

Books and Required Resources: SP 100 Forest Fire Fighter Training (Student Reference Notes) by MNDMNR&F
 Publisher: Queen’s Printer for Ontario

Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1
	1. Safely operate and retrieve forest fire suppression equipment to the OMNR&F SP100 standard.	1.1 Demonstrated ability to follow equipment inventory control procedures. 1.2 Demonstrated ability to safely operate, maintain and retrieve forest fire equipment (pumps, hose, hand tools, camp equipment, Radios etc.). 1.3 Demonstrated ability to safely participate in a practical helicopter slinging exercise. 1.4 Demonstrated ability to sharpen and maintain an axe, pulaski and fire shovel. 1.5 Demonstrated ability to roll hose into a melon based on SP100 standards. 1.6 Successfully demonstrate bush orientation skills.
	Course Outcome 2	Learning Objectives for Course Outcome 2
	2. Describe and demonstrate fire use and fire suppression tactics and strategies.	2.1 Explain and demonstrate fire line tactics (direct and indirect attack, hose lays, pump set ups, troubleshooting). 2.2 Explain the application and limitations of the fire equipment in various fire management scenarios. 2.3 Describe the role of aircraft and heavy equipment in fire management. 2.4 Understand the components of the Incident Command System (ICS) used on the fire. 2.5 Explain fire management operations including preparedness, initial and sustained attack, mop up and retrieval. 2.6 Demonstrate safe and efficient work habits in a teamwork environment. 2.7 Understand the importance of safety gear, hard hat, steel toe boots, gloves, goggles/safety glasses, hearing protection.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Final Exam	90%
practical field work	10%

Date:

August 21, 2025

Addendum:

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

