



COURSE OUTLINE: NET107 - OUTDOOR EQUIP CERT

Prepared: Barry Oja & Brian Anstess

Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

Course Code: Title	NET107: OUTDOOR EQUIPMENT CERTIFICATIONS
Program Number: Name	5212: ADVENTURE RECREATION 5214: FISH/WILD CONSERVATN 5220: NAT ENVIRONMENT TN 5230: FORESTRY TECHNICIAN
Department:	NATURAL RESOURCES PRG
Academic Year:	2023-2024
Course Description:	Students will be trained through lectures and/or hands-on experience in the safe operation, care and maintenance of, ATV's, chainsaws, clearing saws, motor boats, snowmobiles and power tools. They will have the potential to earn safe operating certificates if they are successful with both the hands-on and the theory portion. To be eligible to receive a safety certificate, students must attend all theory and field portions of the course.
Total Credits:	3
Hours/Week:	4
Total Hours:	45
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Substitutes:	NRT138
Vocational Learning Outcomes (VLO's) addressed in this course:	<p>5212 - ADVENTURE RECREATION</p> <p>VLO 1 Demonstrate clear, concise and industry appropriate written, spoken and visual communication skills.</p> <p>VLO 9 Safely operate and maintain equipment used in Adventure Recreation and Park operations.</p> <p>VLO 11 Analyze, evaluate and apply subjective and objective safety considerations for Adventure Recreation and Parks activities.</p> <p>5214 - FISH/WILD CONSERVATN</p> <p>VLO 1 Demonstrate clear, concise and industry appropriate written, spoken and visual communication skills</p> <p>VLO 9 Safely operate and maintain equipment used in Fish and Wildlife Conservation.</p> <p>VLO 11 Analyze, evaluate and apply subjective and objective safety considerations.</p> <p>5220 - NAT ENVIRONMENT TN</p> <p>VLO 2 Utilize natural resources equipment and technology to accurately identify ecosystem components for purposes of conserving and managing natural resources.</p>
Please refer to program web page for a complete listing of program outcomes where applicable.	



VLO 7 Work safely in adherence to occupational health and safety standards.

5230 - FORESTRY TECHNICIAN

VLO 7 Select, operate, troubleshoot and maintain tools and equipment in a variety of environmental conditions and in accordance with safety and operating standards.

VLO 8 Work independently and in a collaborative environment while applying effective teamwork, leadership and interpersonal skills.

VLO 9 Communicate technical information to a variety of stakeholders in oral, written, visual and electronic forms.

Essential Employability Skills (EES) addressed in this course:

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.

EES 5 Use a variety of thinking skills to anticipate and solve problems.

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:

Academic success is directly linked to attendance. Missing more than 1/3 of class hours in a semester shall result in an F grade for the course.

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Safely operate a chainsaw at a basic level.	1.1 Participate in all lectures and labs on safe operation and maintenance of chainsaws. 1.2 Demonstrate safe operating techniques and saw maintenance including: saw safety and inspection, sharpening, fuel mixing, minor maintenance, use of personal protective equipment, safe starting procedures, directional notching and bucking. 1.3 Safe limbing and light duty felling will be discussed in lab. 1.4 Recognize dangerous situations and describe ways to avoid them.
Course Outcome 2	Learning Objectives for Course Outcome 2
To understand the safe operation of a clearing saw at a basic level. Safely operate a clearing saw at a basic level during field activities.	2.1 Participate in all lectures on safe operation, proper use of personal protective equipment, safe starting procedures, maintenance of clearing saws and proper handling procedures. 2.2 Demonstrate safe operating techniques including: proper use of personal protective equipment, safe starting procedures, fuel mixtures and proper handling procedures.
Course Outcome 3	Learning Objectives for Course Outcome 3
Safely operate an ATV at a basic level.	3.1 Participate in all lectures and labs on safe operation and maintenance of ATV's. 3.2 Demonstrate safe ATV riding techniques including: circle check, use of personal protective equipment, starting procedures, appropriate hand signaling, braking, mounting,



	dismounting, and weight transfer. 3.3 Recognize dangerous situations and describe ways to avoid them. 3.4 Students will have opportunity to earn Canada Safety Council ATV Certification
Course Outcome 4	Learning Objectives for Course Outcome 4
Discuss and understand the Safe Operation & Maintenance of a boat with motor. Students will have the opportunity to acquire a Pleasure Craft Operator Card (PCOC).	4.1 Participate in all lectures and labs on safe operation and maintenance of boats with motors. 4.2 Demonstrate knowledge of boat safety including: proper safety equipment and proper use of personal protective equipment. 4.3 Understand important concepts of boating including: Proper starting & stopping of motor, proper and appropriate docking procedures, proper and safe driving techniques. 4.3 Recognize dangerous situations related to boating and describe ways to avoid them. 4.4 Recognize environmental impacts on Canadian waters. 4.5 Know and understand rules and regulations for recreational boating.
Course Outcome 5	Learning Objectives for Course Outcome 5
Discuss and understand the Safe Operation & Maintenance of a snowmobile.	5.1 Participate in all lectures and labs on safe operation and maintenance of snowmobiles. 5.2 Demonstrate knowledge of safe snowmobiling including proper safety equipment and use of personal protective equipment. 5.3 Understand important concepts of snowmobiling including circle check, starting & stopping, hand signaling, weight transfer and safe driving techniques. 5.4 Recognize dangerous situations related to snowmobiling and describe ways to avoid them. 5.5 Know and understand rules and regulations for snowmobiling.
Course Outcome 6	Learning Objectives for Course Outcome 6
Occupational Health and Safety	6.1 Complete Worker Health and Safety Awareness in 4 Steps 6.2 Have an understanding of the rights, duties and obligations of Workers, Supervisors and Employers in Ontario.
Course Outcome 7	Learning Objectives for Course Outcome 7
Students will learn to safely operate a variety of power tools.	7.1 Participate in all lectures and labs on safe operation of power tools. 7.2 Demonstrate knowledge of safe power tool use including proper safety equipment (eg guards on blades) and use of personal protective equipment. 7.3 Recognize dangerous situations related to use of power tools and describe ways to avoid them.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Final Exam	20%

	Outdoor Equipment Field Activities	40%
	Outdoor Equipment Theory	40%

Date: July 13, 2023

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