

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: FOREST PROTECTION

Code No.: FOR 103-4

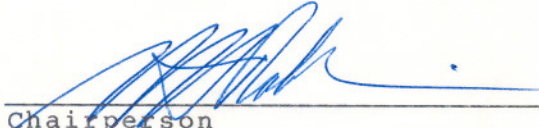
Program: FORESTRY

Semester: ONE

Date: JULY, 1985

Author: STAN FISCHER

New: \_\_\_\_\_ Revision: X \_\_\_\_\_

APPROVED:  Chairperson

Date: July 19/85

CALENDAR DESCRIPTION

FOREST PROTECTION

FOR 103-4

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Course Name

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PHILOSOPHY/GOALS:

Successful completion of this course will certify a student as being qualified to function as a crew member of Ontario Ministry of Natural Resources forest fire fighting crews.

Topics include: Communications, Fire Behaviour, Use and Maintenance of Equipment, Fire Suppression Skills, Aerial Operations, Camp Operations, and Safety.

METHOD OF ASSESSMENT (GRADING METHOD):

Quiz #1 prior to Fire Camp	5%
(Fire Camp ex)	25%
Test #1 (after Fire Camp)	20%
Quiz #2 (Tenth Week)	10%
Final Test (Final Week)	40%
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	100%
Performance - punctuality	
- interest	
- initiative	
- reliability	
- attitude	10%
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	110%

65% Pass

Start with 10 marks: - 1 mark lost for each late lab or absenteeism without reason  
- 5 marks are lost for entering lectures late

Bonus marks up to five in total may be added for outstanding performance, participation, effort or initiative.

TEXTBOOK(S):

1. Forest Fire Suppression
2. Canadian Forest Fire Weather Index
3. Analysis of Fire Behaviour
4. Forest Fire Control Terminology
5. The Forest Fire Prevention Act

LEARNING OBJECTIVES		CONDITION	ACCURACY
(ACCORDING TO UNIT CREW TRAINING STANDARDS - MINISTRY OF NATURAL RESOURCES)			
Define fire-related terms	(1.01)		80% accuracy
Demonstrate technique for operating a two-way radio according to DOC	(1.05)	Field	Acceptable
Troubleshoot and correct problems	(1.05)	Lab	Acceptable
Allocate resources on a Step 1 fire	(2.01)	Lab Problem	Acceptable
Match personnel, equipment and materials given a specific set of field conditions	(2.01)	Lab Problem Field Exercise	Acceptable
Demonstrate safe use of fire tools and equipment (chainsaw, axe, shovel, etc.) (with adequate job experience)	(2.02)	Field	Acceptable
Identify work hazards & describe corrective action	(2.02)	Lab/Field	Acceptable
Keep records for fire pumps & chainsaw (machine log) time sheets	(3.02)	Field	Acceptable
Select a site on a map, draw a camp plan, erect camp...activate daily roster	(3.02)	Lab/Field	Acceptable
Sharpen axes, chainsaws, shovels, pulaski	(3.03)	Lab/Field	Acceptable
Repair tents and fire hoses (emergency)	(3.03)	Lab/Field	Acceptable
Maintain chainsaw & fire pump	(3.03)	Field	Acceptable
Measure air temperature, R.H. wind velocity and direction	(3.04)	Field	Acceptable

Compatibility bulldozer and  
fire plan

Describe initial access route to a fire given forest types and topography	(5.02)	Lab Problem	Acceptable
Select appropriate tools - chainsaw, axe, bowsaw	(6.03)	Lab Problem	Acceptable
Select appropriate tools, describe and demonstrate use, maintain, retrieve - hose - shovel - back-pack pumps - pulaski, etc.	(6.03)	Given Set of Lab/Field	60% Acceptable
List factors that lead to selection of specific fire control equipment	(6.03)		60%
Identify and describe situations: boarding, loading, docking, signalling aircraft; flammable fuels; lifting heavy objects; cargo dropping; volatile liquids; water craft	(6.03)	Lab/Field (Checklist)	60% Acceptable
Describe procedures for deployment of men & equipment	(6.03)	Lab	60%
Describe factors which affect fire behaviour individually and in combination - slope, weather, wind, topography, fuel, fire type, etc.	(6.03)	Lab	60%
Record FWI and computing. Explain relationship to fire behaviour	(6.03)	Lab	60%

LEARNING OBJECTIVES		CONDITION	ACCURACY
Select a base campsite on a map	(6.03)	Given set of conditions	Acceptable
Describe organization of base camp, e.g., location of helipad, radio antennae, dock	(6.03)	Given Campsite	Acceptable
Describe construction and installation of antennae	(6.03)		
Construct a dock suitable for boat or aircraft	(6.03)		