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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Titl	FOREST PROTECTION	~ ~
Code No.:	FOR 103-4	
Program:	FORESTRY	
Semester:	ONE	
Date:	AUGUST 1988	
Author:	STAN FISCHER	
	New:	X Revision:
APPROVED:	Chairperson	Aug 29/88



FOR 103-4

Course Name

Course Number

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 before to Fire Camp	5
Fire Camp (Oct 15-30)	20
Test #1 (week Oct 31-Nov 4)-lecture	25
Quiz #2 (after fire camp including	
FWI and Fire Behaviour)	10
Self Study Workbook "Fire Behaviour"	P or
(Due week of Oct 31- Nov 4) Labs	
Test #2 all course material	40
week of Dec 5-9 Labs	
Participation Bonus	10
	sonelli
	110

A 85 B 75 C 65

Quiz 1 - must pass to attend fire camp

Attempt	A	В	C
1 plata/di	5	4	3
3	5	4	3
3	3	2	1
1	3	2	1
1 01913/0	4	3	2
	-	Attempt A 1	100 FX

must total 10 or "Fast R"

Test 1 - all material up to test date
Test 2 - total course material

Participation	Bonus	Start with			10
		miss lab			-1
		late lab			-1
		late lecture			-2
		participation,	up	to	+3

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 TRAINI	NG STANDA	RDS - 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	(1.05)	Lab	Acceptable
problems 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
<pre>Keep records for fire pumps & chainsaw (machine log) time sheets</pre>	(3.02)	Field	Acceptable
Select a site on a map, draw a camp plan, erect campactivate 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

LEARNING OBJECTIVES	CON	NDITION	ACCURACY
Describe machine-site	(4.02)	Lab	
compatibilty bulldozer and fire plan			
Describe initial access routo a fire given forest type and topography		Lab Problem	Acceptable
Select appropriate tools - chainsaw, axe, bowsaw	(6.03)	Lab Problem	Acceptable
Select appropriate tools,	(6.03)	Given Set of	60%
describe and demonstrate use, maintain, retrieve - hose - shovel		Lab/Field	Acceptable
- back-pack pumps - pulaski, etc.			
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; care dropping; volatile liquids; water craft	go	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, weathewind, topography, fiel, firetc.		Lab	60%
Record FWI and computing. Explain relationship to fir 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)			