

SC242

Spill Response & Field Certification

3 Credits

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SC242 Version: 8



Spill Response & Field Certification

Calendar Description

This course introduces students to various environmental protection and safety skills identified by employers as being important to working field professionals in the environmental industry. Successful candidates will receive industry recognized certification in Spill Response, Standard First Aid and CPR-C with AED (Automated External Defibrillator), H2S Alive®, All Terrain Vehicle Operation and Safety, and Motor Boat Operation and Safety. Students also gain a working knowledge of spill response and reporting requirements as provided by the Alberta and Saskatchewan governments.

Rationale

This is a required course for Applied Environmental Sciences major students in the Environmental Sciences Diploma. The course is held in the winter semester and provides students with practical field skills and certifications identified as important by potential employers.

Prerequisites

None

Co-Requisites

None

Course Learning Outcomes

Upon successful completion of this course, students will be able to

1. obtain certification with Western Canadian Spill Services as a Spill Responder
2. obtain certification in Standard First Aid and CPR-C with AED
3. obtain certification in H₂S Alive
4. obtain certification in All Terrain Vehicle Safety Training with the Canadian Standards Association
5. obtain their Transport Canada pleasure craft operator card which allows for legal operation of motorized watercraft

6. demonstrate an understanding of spill response and reporting regulations in Alberta and Saskatchewan

Essential Employability Skills

Essential employability skills are critical for workplace success and lifelong learning. Lakeland College prepares its graduates for the workplace and lifelong learning by integrating and promoting essential employability skills development in its curricula. Each credit course offered at Lakeland College emphasizes one or more of the following five essential employability skills:

- A. **Communication Skills** that enable individuals to listen, interpret, express, and convey knowledge and ideas so that they are received and understood.
- B. **Teamwork Skills** that enable individuals to respect the thoughts and opinions of others as they work together to plan activities, meet deadlines, complete projects, and contribute to an organization's goals.
- C. **Critical Thinking Skills** that enable individuals to conceptualize and analyze issues from various perspectives while rationally evaluating the strengths and limitations of each perspective and deciding what action to take.
- D. **Adaptability Skills** that enable individuals to respond quickly, willingly, and positively to new conditions and changing times.
- E. **Positive Attitude and Behavioural Skills** that enable individuals to be confident about themselves and to deal with people, problems, and situations with honesty, integrity, and personal ethics.

Resource Materials

Required Text:

Some texts and/or learning materials are provided to students at the beginning of their respective certificate courses, and include:

Western Canadian Spill Services. 2011. Spill Responder 100. Western Canadian Spill Services.

96 pgs.

Canadian Red Cross. 2011. Canadian Red Cross First Aid & CPR Manual: A practical resource for work and home. The StayWell Health Company Ltd. 208 pgs.

ENFORM. 2012. H2S Alive Student Manual. ENFORM. 123 pgs.

Canadian Safety Council. 2012. All Terrain Vehicle Safety Training Course Manual. Canadian Safety Council. 56 pgs.

Lifesaving Society. 2012. B.O.A.T. - Boat Operator Accredited Training Study Guide.

Royal Life Saving Society Canada. 74 pgs.

Conduct of Course

This course is a combination of lectures and labs. The Spill Response component is taught in scheduled lecture/laboratory periods. All other certification sub-courses are offered considering instructor availability while attempting to minimize impact on other courses within the Environmental Monitoring and Protection program. As such, the motor boat operation certification, First Aid and CPR with AED, H₂S Alive and ATV Safety Training can be offered on weekdays, afternoons, evenings and weekends.

Evaluation Procedures

Each of the six components in this course has a written exam. Exams may contain discussion-type, short answer, true/false, and/or multiple-choice questions. The final grade for this course is an aggregate of the following:

Western Canadian Spill Services Spill Responder Exam	40%
Assignments	20%
Standard First Aid & CPR-C with AED Exam	10%
H ₂ S Alive Exam	10%
All Terrain Vehicle Safety Training Exam	10%
Pleasure Craft Operator Exam	10%

To obtain credit in this course, all certification and assignments must be completed. Attendance, unless explicitly waived by the Instructor, is required for all of the individual sub-courses at those dates and times provided by the Instructor. These will include dates and times outside those regularly scheduled for the course as listed in the student's timetable.

For those students who already have a valid and current certification and do not wish to become recertified, the following conditions apply:

- 1) The student must provide proof, to the satisfaction of the Instructor, that the student has a valid and current certification for the identical sub-course
- 2) The student must provide proof, to the satisfaction of the Instructor, of the student's grade for the exam in #1 above
- 3) If #1 can be provided but #2 cannot be provided, then the instructor will assign a mark of the minimum pass grade of the certification exam

Reattempts of missed sub-courses and exams are not provided unless extremely extenuating circumstances can be proven by the student. A grade of zero in that sub-course will normally be given.

Assignments details and evaluations are provided by the instructor. All assignments are due at the start of class as requested. Late assignments have a penalty of -20% of the earned mark for any submission within the first 24 hours, and -20% for each subsequent day late.

Knowledge/Skills Matrix

Students apply and demonstrate their knowledge and skills to use

A. Communication Skills

A1. by listening, reading, interpreting information, and communicating effectively	
	Evaluation(s)/Goal(s): Exams/Goals
A2. by using written, spoken, and/or visual formats and media to communicate and meet needs of each particular audience	
	Evaluation(s)/Goal(s): N/A
A3. by using libraries, Internet, technical publications, journals and other sources to find pertinent information	
	Evaluation(s)/Goal(s): Exams/Goals

B. Teamwork Skills

B1. by using interpersonal skills to create an atmosphere that maximizes the strengths of group members to accomplish tasks	
	Evaluation(s)/Goal(s): First Aid
B2. by using interpersonal skills to resolve conflict, relate to others, and assist others	
	Evaluation(s)/Goal(s): First Aid
B3. by contributing and listening to others as group determines realistic objectives, prioritizes tasks, and identifies resources and timelines	
	Evaluation(s)/Goal(s): First Aid
B4. by treating other members of the group open-mindedly and fairly	
	Evaluation(s)/Goal(s): N/A
B5. by developing tactics/strategies to accomplish tasks	
	Evaluation(s)/Goal(s): First Aid

C. Critical Thinking Skills

C1. by seeing critical thinking as a lifelong process of self-assessment	
	Evaluation(s)/Goal(s): N/A
C2. by examining problems closely	
	Evaluation(s)/Goal(s): N/A
C3. by examining beliefs, assumptions, and opinions, and weigh them against the facts	
	Evaluation(s)/Goal(s): N/A
C4. by seeking out the truth	
	Evaluation(s)/Goal(s): N/A
C5. by finding solutions; make decisions	
	Evaluation(s)/Goal(s): Exams/Goals
C6. by incorporating new ideas that may not necessarily agree with previous thought on the topic	
	Evaluation(s)/Goal(s): N/A
C7. by seeing connections between topics and use knowledge from other disciplines to enhance reading and learning experiences	
	Evaluation(s)/Goal(s): Exams/Goals

D. Adaptability Skills

D1. by working independently or as part of team	
	Evaluation(s)/Goal(s): Exams/Goals
D2. by carrying out multiple tasks or projects	
	Evaluation(s)/Goal(s): Exams/Goals
D3. by being innovative and resourceful: identify and suggest alternative ways to get the job done	
	Evaluation(s)/Goal(s): N/A
D4. by being open and respond constructively to change and uncertainty	
	Evaluation(s)/Goal(s): Exams/Goals

E. Positive Attitude and Behavioural Skills

E1. by dealing with people, problems, and situations with honesty, integrity, and personal ethics	
	Evaluation(s)/Goal(s): Exams/Goals
E2. by showing interest, initiative, and effort	
	Evaluation(s)/Goal(s): Exams/Goals
E3. by affirming the need for positive solutions and encourage positive interaction and feedback	
	Evaluation(s)/Goal(s): First Aid
E4. by balancing personal and family activities with job-related activities	
	Evaluation(s)/Goal(s): Motorcraft operation

Grade Equivalents and Course Pass Requirements

A minimum grade of D (50%) (1.00) is required to pass this course.

Letter	F	D	D+	C-	C	C+	B-	B	B+	A-	A	A+
Percent Range	0-49	50-52	53-56	57-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-100
Points	0.00	1.00	1.30	1.70	2.00	2.30	2.70	3.00	3.30	3.70	4.00	4.00

Students must maintain a cumulative grade of C (GPA - Grade Point Average of 2.00) in order to qualify to graduate.

Attendance

Classroom and laboratory attendance is considered vital to the learning process and as significant to the students' evaluation as examinations and reports, therefore absenteeism is recorded.

- a. Students having a combination of excused and/or unexcused absence of 20 percent or higher for the scheduled course hours can be required to withdraw and would then

- b. automatically receive a "RW" (required withdrawal) for the course, regardless of any other evaluation results. (RW is a failing grade).
- c. An excused absence is one that is verified with your instructor. Verification should be prior to the absence or the next class day following the absence. Verification of the absence may take the form of a note from your doctor/College nurse regarding illness, or a note from another instructor regarding a field trip or other activity, or authorization by your instructor following an in-person meeting. Be sure to contact your instructor and ask what they will require from you as verification for each absence. An unexcused absence is anything NOT verified by the instructor prior to the absence or the next class day following the absence.

NOTE: Any exceptions to the above attendance policy (e.g. timetable conflicts, work-related issues) must be approved in writing by the Department Chair prior to the beginning of the course.

It is the students' responsibility to know their own absentee record.

Normal hours are 8:30 a.m. to 6:30 p.m., with potential for evening courses, exams or extended field trips. Students are expected to be available for classes during these times.

Course Units/Topics

Lecture / Lab:

The following are topics to be covered throughout the course. Topic order may change as time permits, or based on instructor availability, and may be added or deleted. In addition if time and availability permits guest lectures or field trips may also be added to supplement the course content.

1.	Western Canada Spill Services Responder Certification Sub-Course
2.	Alberta and Saskatchewan Regulations - Spill Reporting and Response
3.	Standard First Aid & CPR - Level C with AED Certification Sub- Course
4.	H ₂ S Alive Certification Sub-Course
5.	All Terrain Vehicle Safety Training Certification Sub-Course
6.	Motorized Watercraft Operation and Safety Certification Sub-Course



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