



Industry Training Program
Avalanche Operations Level 2 Module 3
Evaluation Scheme – Update 2018

Overview:

This document describes the assessment process for the Level 2 Module 3. This marking system has been reviewed by the CAA Education Committee in the fall of 2009 and numerous Level 2 instructors and underwent further revision in December of 2009 and minor revision in 2018

The scheme consists of 3 major elements.

- Deliverables
- Module 3 Technical Analysis Skills Assessments
- Module 3 Field Trip Skills Assessments

Deliverables:

On day 6 of the Module 3 students will hand in a portfolio of their work records for marking. Students will organize the portfolio in the following manner:

Module 3:

Daily AM/PM Hazard Analysis	10 (2 points per form, 5 required)
Daily Field Book Records	10 (2 points per day for 5 days)
Time Profile	5
Final Exam Snow Profile (not drafted)	15
Hazard Evaluation Problem Exercise	15
Final AM or PM Hazard Analysis	15
Final Written Exam	10
Field Trip Assessment	20
<u>TOTAL</u>	<u>100</u>

Topic/Training Category	Comments	Maximum Marks Possible	Minimum Mark	Core Category?
Technical Analysis Skills Assessment				
<i>See the Technical Analysis Skills & Snow Profile Rubrics for more information</i>				
Final Exam Profile***	<ul style="list-style-type: none"> • Profile objectives (3.75 marks) • Structural Properties of the Snowpack. (3.75 marks) • Mechanical Tests (3.75 marks) • Interpretation and Communication (3.75 marks) 	15	10.65	Yes
Hazard Evaluation Problem 18	Marked as per standardized instructor marking scheme	15	10.65	
Final AM or PM Hazard and Risk Analysis	<ul style="list-style-type: none"> • Completeness, legibility & layout • Relevant Factors, significant changes • Integrates hazard and risk concepts into the operational plan or terrain travel advisory. • Integrates weather forecast into future hazard trends 	15	10.65	
Data Collecting and Record Keeping ***	<p>Daily Field Book Entry (10 points-2 points per day)</p> <ul style="list-style-type: none"> • Study plot & field weather observations • Avalanche Observations • Profiles • Informal snowpack observations <p>Time Profile (5 points)</p> <ul style="list-style-type: none"> • Complete for 2 snowpack regions for course duration (Dogtooth & Selkirks or Whistler & Duffey; 5 days of data) <p>Daily AM/PM Hazard Analysis (10 points-2per day, 5days)</p> <ul style="list-style-type: none"> • Completeness, legibility & layout • Relevant Factors, significant changes • Integrates hazard and risk concepts into the operational plan or terrain travel advisory. • Integrates weather forecast into future hazard trends 	25	17.75	Yes
Final Written Exam	Marked as per standardized instructor marking scheme	10	7.1	

Field Trip Skills Assessment***						
<i>See the Field Trip Skills Rubric for more information</i>						
Participation, Teamwork and Leadership Skills	<p>Includes some or all of these elements:</p> <ul style="list-style-type: none"> • Participates fully in operations meetings and field discussions • Demonstrates organizational skills & time management • Maintains effective communication with team and base • Participates as a team member by fulfilling his role and contributing to the team task • Manages wellness and stress • Demonstrates a risk-based decision-making process and includes margins of safety to manage uncertainty • Maintains Situational Awareness and makes decisions consistent with the morning hazard forecast • Implements decisions and is quick to error correct <p>5 marks applied on a daily basis for this category, then pro-rated and factored into the overall mark out of 20 for Field Trip Assessment. <i>Exceeds Requirements (4.6-5) Fully Satisfactory (4.1-4.5) Meets Minimum Requirements (3.6-4) Does not meet Requirements (<3.6)</i></p>	20	14.2	Yes		
Terrain Analysis Skills	<p>Includes some or all of these elements:</p> <ul style="list-style-type: none"> • Identifies Avalanche Terrain Features • Demonstrates safe travel techniques • Identifies route Selection Options • Identifies Scale Effects • Analyses avalanche potential of a slope, likelihood of occurrence and consequence • Identifies and mitigates of hazards appropriately • Relates terrain shape to locations of weaker or stronger snow and trigger points • Demonstrates a risk-based decision-making process and includes margins of safety to manage uncertainty <p>5 marks applied on a daily basis for this category. These will be pro-rated and factored into the overall mark out of 20 for Field Trip Assessment. <i>Exceeds Requirements (4.6-5) Fully Satisfactory (4.1-4.5) Meets Minimum Requirements (3.6-4) Does not meet Requirements (<3.6)</i></p>					
Total Marks and Interpretation						
<p>Overall points for all categories total 100. A mark of 71 is required overall to pass the course. ***Core Category. Must achieve 71% to pass each of the core categories:</p> <ul style="list-style-type: none"> • Final Exam Profile • Data Collection and Record Keeping • Field Trip Skills <p>Less than 71% in 2 of the core categories results in a course <i>fail</i> despite an overall mark greater than 71.</p>				100	71	Yes