



COURSE OUTLINE: ATQ114 - HLTH & SFTY FOR AVTN

Prepared: Jim Cairns

Approved: Greg Farish, Chair, Aviation Technology - Flight

Course Code: Title	ATQ114: HEALTH AND SAFETY FOR AVIATION
Program Number: Name	4161: AVIATION TECHNIQUES
Department:	CONTROL - SAULT
Semesters/Terms:	21F
Course Description:	This course provides students a base of knowledge of regulatory requirements for Safety Management System (SMS) implementation as outlined in Transport Canada's Canadian Aviation Regulations (CARs) and the International Civil Aviation Organization (ICAO). By course completion students will have a good understanding of Safety Management System components, including but not limited to, safety management plans, risk assessment and reporting, data collection, the risk matrix and emergency response preparedness. Aviation-related case studies will be examined which outline the failure of poorly designed, implemented and/or managed Safety Management Systems.
Total Credits:	2
Hours/Week:	2
Total Hours:	30
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Vocational Learning Outcomes (VLO's) addressed in this course:	4161 - AVIATION TECHNIQUES
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 1 Recognize and eliminate unsafe conditions in the aviation setting to maintain a safe work environment
	VLO 5 Apply oral and written technical communication skills to succeed in college level aviation programs.
	VLO 7 Apply computer skills required to succeed in college level aviation programs.
	VLO 8 Develop effective learning and study skills to support success in the current program of study and advancement into subsequent, higher level, studies in Aviation.
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 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.
	EES 4 Apply a systematic approach to solve problems.
	EES 5 Use a variety of thinking skills to anticipate and solve problems.
	EES 6 Locate, select, organize, and document information using appropriate technology and information systems.
	EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.
	EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of

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others.

EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.

EES 10 Manage the use of time and other resources to complete projects.

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.

Books and Required Resources:

Aviation Safety Programs - A Management Handbook by Richard H. Wood
Publisher: Jeppesen Sanderson Inc. Edition: 3rd Edition
ISBN: 0-88487-329-3

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Safety Management Systems	Understanding of a safety management system structure, and its importance to aviation
Course Outcome 2	Learning Objectives for Course Outcome 2
Canadian aviation SMS regulatory requirements	Knowledge of the Canadian aviation divisions which require an SMS
Course Outcome 3	Learning Objectives for Course Outcome 3
Real world examples of SMS failures and successes in aviation	Ability to review a case which an accident or incident occurred, and reason how an SMS may have prevented the accident or incident

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignment	10%
Final Exam	40%
Mid Term	30%
Quizzes	20%

Date:

August 13, 2021

Addendum:

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

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