

Multi Engine Rating (MER) Program Outline

Course Description	<p>The Multi Engine Rating (MER) program trains students to understand the fundamentals of flying aircraft with more than one-engine thus the title multi-engine aircraft. Multi engine aircraft are essential to private and commercial operations especially in their efficiency when it comes to higher altitude flying, increased passenger capabilities as well as transatlantic flying.</p> <p>The program is intended to provide ground knowledge and flight training of the principles of multi engine flying to prepare the candidate for a multi engine flight test.</p>
Prerequisites	<ol style="list-style-type: none"> 1. Private Pilot Licence or Commercial Pilot Licence.
Learning Objectives	<p>Upon completion of this program the successful student will demonstrate:</p> <ol style="list-style-type: none"> a. Have a good knowledge of multi engine aircraft, performance, weight and balance, principles of flight and POH. b. An understanding of principles of flight – one engine inoperative. c. Safe planning procedures and handling of multi-engine aircraft.
Required course materials	<p>Piper Seneca I — POH. ASPEN PFD Pilots Guide. Jeppesen Multi Engine textbook, LFS multi engine workbook.</p>
Duration	<p>30 hours</p>
Homework Hours	<p>3/week</p>
Delivery Method	<p>In-class instruction, aircraft flight training in a Piper Seneca I</p>
Teaching Method	<p>Lecture/Guided-Discussion</p>
Method(s) of Student Evaluation	<p>Students will be assigned homework, individual topics for discussion, and in class quizzes.</p>
Completion Requirements	<p>Successfully complete a Transport Canada Multi Engine flight test with the recommendation of a flight instructor.</p>
Career Occupations	<p>Successful candidates attain the skills required to work in a commercial air service as Pilot of a multi-engine aircraft, Chief Pilot, Ferry Pilot or Flight Instructor.</p>

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Topics	Duration (hours)
Introduction to Multi Engine Aircraft PGI	2.0
Limitations PGI	1.0
Emergency Procedures PGI	1.0
Normal Procedures PGI	1.0
Performance PGI	1.0
Weight and Balance PGI	1.0
Description and Operation of the Airplane and its systems PGI	1.0
Airplane Handling and Servicing and Maintenance PGI	1.0
Pre-Flight Briefings	4.0
Post Flight Briefings	5.0
In Flight Instruction	12.0