

# Course Competency

## AVM 2672 Safety Management Systems

### Course Description

Safety Management System (SMS) is an organization-wide comprehensive and preventive approach to managing safety, designed to explore Title 14, Code of Federal Regulations, Part 5. U.S. air carriers are mandated by the Federal Aviation Administration to incorporate SMS as part of an organizational structure. SMS is design to manage workplace safety risk and reduce to levels as low as possible. Students will explore the phases of aviation safety, government agencies role, hazard analysis, risk management, and factors that contribute to safe airlines operations. SMS design and developed by all in the organization, while integrated in the existing operations and business decision-making processes. SMS is for organization’s leadership, management teams, and employees for effective, informed, safety decisions contributing to an aviation safety culture. Prerequisite: ASC 1870, CLP 2000, ASC 2024. (3 hr. Lecture)

Course Competency	Learning Outcomes
<p><b>Competency 1:</b>The student will demonstrate knowledge and understanding of SMS program and its concepts by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Critical thinking</li> <li>3. Information Literacy</li> <li>4. Social Responsibility</li> <li>5. Computer / Technology Usage</li> <li>6. Environmental Responsibility</li> <li>7. Ethical Issues</li> </ol>
<ol style="list-style-type: none"> <li>1. Identifying with the Federal Aviation Administration (FAA), Safety Management System (SMS) program.</li> <li>2. Recognizing the fundamentals of airline safety programs.</li> <li>3. Identifying the safety culture and its characteristics.</li> <li>4. Demonstrating how to promote a positive safety culture in organization.</li> </ol>	
<p><b>Competency 2:</b>The student will demonstrate knowledge and understanding of the SMS Structure and its Safety Pillars by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Critical thinking</li> <li>3. Information Literacy</li> <li>4. Social Responsibility</li> </ol>

	<ol style="list-style-type: none"> <li>5. Ethical Issues</li> <li>6. Computer / Technology Usage</li> <li>7. Environmental Responsibility</li> </ol>
<ol style="list-style-type: none"> <li>1. Identifying the safety policy, safety risk management, safety assurance, and safety promotion.</li> <li>2. Recognizing the safety compliance, roles and responsibilities, and reporting of incidents.</li> <li>3. Inferring the SMS function and its complexity in airline, and aircraft maintenance.</li> <li>4. Distinguishing the SMS commitment, safety accountability, and legal requirements.</li> </ol>	
<p><b>Competency 3:</b>The student will demonstrate knowledge and understanding the SMS culture and foundation by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Critical thinking</li> <li>3. Information Literacy</li> <li>4. Social Responsibility</li> <li>5. Ethical Issues</li> <li>6. Computer / Technology Usage</li> <li>7. Environmental Responsibility</li> </ol>
<ol style="list-style-type: none"> <li>1. Inferring the SMS culture, requirements, and management.</li> <li>2. Distinguishing the interdependency of physiology and human behavior.</li> <li>3. Recognizing the safety culture and its products value.</li> <li>4. Identifying the commitment to reduce risk reduction.</li> </ol>	
<p><b>Competency 4:</b>The student will demonstrate knowledge, understanding, and recognition of the SMS and the Just Culture by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Critical thinking</li> <li>3. Information Literacy</li> <li>4. Social Responsibility</li> <li>5. Ethical Issues</li> <li>6. Computer / Technology Usage</li> <li>7. Environmental Responsibility</li> </ol>

<ol style="list-style-type: none"> <li>1. Recognizing the importance of Just Culture in SMS.</li> <li>2. Inferring the systematic errors, implementation to prevent and the corrective actions process.</li> <li>3. Recognizing undesirable behavior, willful disregards, and its established procedures.</li> <li>4. Interpreting the Just Culture balance and accountability.</li> </ol>	
<p><b>Competency 5:</b> The student will demonstrate knowledge and understanding of management involvement in SMS program by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Critical thinking</li> <li>3. Information Literacy</li> <li>4. Social Responsibility</li> <li>5. Ethical Issues</li> <li>6. Computer / Technology Usage</li> <li>7. Environmental Responsibility</li> </ol>
<ol style="list-style-type: none"> <li>1. Recognizing leadership commitment and demonstration of SMS program.</li> <li>2. Identifying the safety program does not have to be sophisticated.</li> <li>3. Recognizing the positive culture and promotion of workplace safety.</li> <li>4. Inferring the safety risk management and decision-making ability.</li> </ol>	

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