Course Competency

ASC 1870 Introduction to Aviation Safety

Course Description

This course is designed to recognize Aviation Safety within context of a safety system approach, program development, and management. Providing overview of different phases of aviation safety with various hazard analysis, risk management, and factors that contribute to safe aviation operations. Compares roles and responsibility of government agencies involved in aviation safety, aircraft accident investigations, reporting and collecting safety related data, incident statistic, and factors involved in aviation safety. (3 hr. lecture)

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate knowledge and understanding of aviation safety and its concepts by:	1. Critical thinking 2. Information Literacy 3. Communication 4. Numbers / Data 5. Social Responsibility 6. Ethical Issues 7. Environmental Responsibility
1. Identifying the Federal Aviation Administration (FAA) safety programs. 2. Interpreting the fundamentals of the Aviation Safety Action Program (ASAP) and the Aviation Safety Awareness Program. 3. Recognizing safety management within the aviation/aerospace industry. 4. Inferring the safety assurance system.	
Competency 2: The student will demonstrate knowledge and understanding of the aircraft incident/accident and its reporting by:	1. Communication 2. Numbers / Data 3. Critical thinking 4. Information Literacy 5. Social Responsibility 6. Ethical Issues 7. Computer / Technology Usage 8. Environmental Responsibility

1. Recognizing the roles and responsibilities of government agencies and precursors in accidents and incidents. 2. Identifying aircraft accident investigations and reporting system. 3. Inferring the safety oversight programs and their initiatives. 4. Differentiating aircraft accidents and the investigation practices.	
Competency 3: The student will demonstrate knowledge and understanding to the relationship of safety program by:	1. Communication 2. Numbers / Data 3. Critical thinking 4. Information Literacy 5. Social Responsibility 6. Ethical Issues 7. Computer / Technology Usage 8. Environmental Responsibility
1. Differentiating safety training programs, policies and procedures for various airline departments. 2. Interpreting Aviation Safety & Health Program (ASHP). 3. Recognizing the global view of aviation safety and its effectiveness within the organization. 4. Recognizing hazard threats to safety.	
Competency 4: The student will demonstrate knowledge, understanding, and recognition of the regulatory requirements related to aviation safety and its management system by:	1. Communication 2. Numbers / Data 3. Critical thinking 4. Information Literacy 5. Cultural / Global Perspective 6. Ethical Issues 7. Computer / Technology Usage 8. Environmental Responsibility
1. Recognizing the aviation safety culture as the primary priority. 2. Identifying the Aviation Safety Reporting System (ASRS) and the reporting process	

on safety issues. 3. Interpreting the accident causation and root cause(s) within aviation safety. 4. Recognizing the evolution of safety within aviation safety.	
Competency 5: The student will demonstrate knowledge and understanding of aviation safety and its effectiveness at work place by:	1. Communication 2. Numbers / Data 3. Critical thinking 4. Information Literacy 5. Cultural / Global Perspective 6. Ethical Issues 7. Environmental Responsibility 8. Computer / Technology Usage
1. Identifying the difference between safety hazards, threats, and accidents. 2. Distinguishing the safety program and comprehensive awareness in aviation. 3. Inferring safety management and its framework in aviation. 4. Recognizing the objectives of safety management in the aviation industry.	

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