

# APT A192: HUMAN FACTORS AND CREW RESOURCE MANAGEMENT

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Item	Value
Top Code	302020 - Piloting
Units	3 Total Units
Hours	54 Total Hours (Lecture Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S)

## Course Description

Course encompasses a wide range of knowledge, skills and attitudes including communications, situational awareness, problem solving, decision making, and teamwork; together with the entire attendant sub-disciplines which each of these areas entails. CRM can be defined as a management system which makes optimum use of all available resources - equipment, procedures and people - to promote flight safety and enhance the efficiency of flight operations. Transfer Credit: CSU.

## Course Level Student Learning Outcome(s)

1. Explain how effective utilization of Cockpit Resource Management can mitigate risk during flight.
2. Define their own set of personal parameters to include building a risk management matrix to help mitigate risk in their own flight operations.

## Course Objectives

- 1. List the origins of CRM and recent human factors research.
- 2. Use industry research to determine where "pilot error" can be reduced.
- 3. Develop their own personal minimums for VFR and IFR flights based on human factors.
- 4. Make risk assessments and be able to adequately minimize those risks for each flight.
- 5. Apply CRM concepts to air traffic control, passengers and ground personnel.
- 6. Describe the Command/Leadership resource management process
- 7. Identify high risk situations
- 8. Construct a risk management matrix

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## Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- DE Online Lecture (02X)