



# **AAM490 Maintenance Resource Management Syllabus**

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## **Course Description**

A general knowledge of the theoretical and practical aspects of the subject and an ability to apply the knowledge. The content includes the need to take human factors into account; Incidents attributable to human factors/human error; Murphy's Law. The course is for the students majored in aviation maintenance management, which is based on the knowledge of management and applied statistics.

## **Prerequisites**

None, ENG110 Preferred

## **Course Objectives and Outcomes**

After successful completion of this course, students will be able to apply the following knowledge gained in this course:

- (a) The applicant should be able to understand the theoretical and fundamentals of the subject.
- (b) The applicant should be able to give a general description of the subject using, as appropriate, typical examples.
- (c) The applicant should be able to use mathematical formula in conjunction with physical laws describing the subject.
- (d) The applicant should be able to read and understand sketches, drawings and schematics describing the subject.
- (e) The applicant should be able to apply his knowledge in a practical manner using detailed procedures.

## **Course Requirements**

- Students are graded on quizzes, written assignments and exams as outlined in the course schedule.
- Students will be required to attend all classes and participate in classroom discussions
- In-class writing projects must be submitted.
- There will be a series of quizzes, three tests and a final examination covering all course material

### **Required Text(s)**

Text:	Human Factors Aviation Maintenance Technician Certification Series
ISBN:	13: 9781941144237
Author(s):	Nancy Gold
Publisher:	Aircraft Technical Book Company, 2015

### **Required Materials**

- Internet connection and computer for research and access to recommended reading and websites
- Standard Microsoft suite of productivity applications

### **Grading Policy**

#### **Grade computation**

<b>Exams and Assignments</b>	<b>Due Date</b>	<b>Percentage</b>
Test One		10
Test Two		10
Test Three		10
Final Exam		70
	<b>TOTAL</b>	<b>100%</b>

#### **Grading Scale**

<b>Grade</b>	<b>Numeric Value</b>	<b>Standard</b>
A	90-100	Excellent
B+	85-89	
B	80-84	Good
C+	75-79	
C	70-74	Average
D**	60-69	Min. Passing
F	Below 60	Failure

### **Changes to the Syllabus**

The instructor reserves the right to modify this syllabus at any time. Such changes will be announced during class meetings. You are responsible for ensuring that your syllabus is current.

## **Writing Style**

Ensure the use of correct, formal or professional English in all papers, assignments, presentations, emails, and discussion items. References must follow the American Psychological Association (APA) style in the body of the paper and at the end in the references sections.

## **Academic Integrity and Plagiarism**

All students are expected to observe the rules and regulations of Vaughn College of Aeronautics and Technology. Academic honesty and ethically appropriate behavior is expected from all students.

The faculty, departments, or division of the College may impose sanctions on students who commit the following academic integrity violations: cheating, plagiarism, obtaining unfair advantage, forgery of transcripts, and other related acts. Sanctions may include a "0" or failing grade on the assignment, a failing grade for the course, suspension, or dismissal from the College. For the full text of the policy on academic integrity see Academic Dishonesty Policy in your Vaughn College Catalog. Also consult the APA Manual for more general academic, legal and ethical guidelines.

*To avoid plagiarism follow these guidelines:*

1. If you use someone else's words put quotation marks around them and credit the source.
2. If you paraphrase someone else's words, or use their ideas in your own words, credit the source.
3. Examine APA Manual and Vaughn College's guidelines.
4. If you are not sure about copying, or have any concerns at all, please ask! Contact your instructor for help!

An additional article on how to avoid plagiarism and improve the originality of your paper is included in the Resources section.

## **Course Policies**

Refer to the course policies section in Sakai and in your catalog for more information of Vaughn College's academic and student support services policies and procedures, including academic assistance, academic honesty, disability support services, absences and lateness, discrimination and harassment.

## **Course Schedule for Jian Qiao University Students**

Day	Topics	Test
Week 1	The pear model of human factors in maintenance	

Week 1	Incidents related to human factors	Test one
Week 2	Case study:Nose wheel jammed on Dash-8	
Week 2	Case study: failure to pressurize after outflow valve left in open position	Test two
Week 3	Case study:main wheel incorrectly fitted	
Week 3	Case study:torch left in nose wheel steering cable run	Test three
Week 4	Murphy's law	Final Exam

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