

# **Course Code: AAM490**

# Course Schedule

**Instructor**: Ray Axmacher **Title:** Adjunct Instructor **Office:** International Programs **Phone:** 718-429-6600

#### **E-Mail**: ray.axmacher@@vaughn.edu

**Office Hours:**

*by appointment*

**Course Description**

#### AAM490 – MAINTENANCE RESOURCE MANAGEMENT (MRM) 3 credits The aviation

maintenance technician’s work environment encompasses a wide variety of tasks. MRM will be used to enhance the safety culture of an aviation organization by encouraging a profound awareness of safety issues. Safety program failure is indicated by occupational injuries, ground damage, accidents, incidents, decreased reliability and airworthiness. Human Factors study will seek to identify and optimize the factors that affect human performance in maintenance and inspection.

## Grading Policy

### Grading Due Date Summary

|  |  |  |
| --- | --- | --- |
| **Assignment** | **Due Date** | **Percentage** |
| Quizzes | As assigned | 40% |
| Mid Term | As assigned | 20% |
| Assignments | Weekly | 15% |
| Final Exam | **TBD** | 25% |
|  | **TOTAL** | **100%** |

**Grading Scale**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Numeric Value** | **Standard** |
| 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 |

#### \*\*For Aviation Training Institute students, minimum passing grade for all courses in the airframe and powerplant curriculum is a “C”.

**Late Work Policy**

*If a student turns in an assignment following the scheduled due date, the student will receive* minimal feedback and a lower grade. Assignments turned in late will be assessed with a grade penalty. Late work will not be accepted if overdue by more than seven days.

### Incomplete Policy

*A grade of “I” (incomplete) is to be awarded very rarely, only when the student has not* completed a small portion of the coursework due to exceptional circumstances. Granting of this grade is up to the discretion of the instructor, but is not recommended when a student has not completed significant portions of course tasks. The instructor must notify the department chair. Failure to complete the course work in a timely fashion, and to the satisfaction of the instructor, will automatically result in the conversion of an “I” grade to the grade of “F”

*(failure).*

**Teaching Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Teaching Contents | Teaching Methods | Homework |
| 1 | The pear model of human factors in maintenance | Case teachingGroup discussion | Preview and review |
| 2 | The pear model of human factors in maintenance | Case teachingGroup discussion | Preview and review |
| 3 | Incidents related to human factors | Case teachingGroup discussion | Preview and review |
| 4 | Incidents related to human factors | Case teachingGroup discussion | Preview and review |
| 5 | Case study:Nose wheel jammed on Dash-8 | Case teachingGroup discussion | Preview and review |
| 6 | Case study: failure to pressurize after outflow calve left in open position | Case teachingGroup discussion | Preview and review |
| 7 | Case study:main wheel incorrectly fitted | Case teachingGroup discussion | Preview and review |
| 8 | Case study:torch left in nose wheel steering cable run | Case teachingGroup discussion | Preview and review |
| 9 | Murphy’s law | Case teachingGroup discussion | Preview and review |
| 10 | Final Exam |  |  |

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| --- | --- |
| Instructor：1663265874689Time：August 27, 2022 | Department head audited signature:1535883053(1) |