



## Health, Safety and Environmental Management Pathway: Air Mode

---

---

### Problem-based Scenario Outline

---

---

**School Site:** Davis

**Detroit, Michigan**

#### Pathway Knowledge and Skill(s):

- P06.1 develop and maintain safety, health and environmental management systems

#### Performance Element(s):

- Develop and implement training and certification programs to maintain and improve compliance and performance of health, safety and environmental systems
- Examine and review current training material for each discipline or field
- Analyze empirical and non-empirical data for efficiency
- Develop a methodology for executing training
- Identify the optimal “total cost” solution and time allotment for training including material and determination of optimal mix to reach the desired training proficiency.
- Review current and future sources
- Prepare a literature review based on expert findings
- Develop and submit a written business report on findings potential lost savings, potential resources, service and / or job improvement recommendations based on training outcomes and proposed plans.
- Make a business presentation on the report.

**Title:** Detroit City Airport Staff Training

**Completion Time:** 4 weeks

**Problem Statement:** The Detroit City Airport must determine how to train its staff to operate and understand the latest and most modern technological equipment as laid out by the Federal Aviation Association. The results upon completion will be presented to the appropriate personnel in four weeks.

**Occupations and Related Job Titles** (*Examples*):

- Operations Manager
- 
-

**Business/Industry/Government Partner(s):** Detroit City Airport Detroit, MI

**Students:**

- Examined current training material and procedures
- Develop a methodology for executing training
- Identifying optimal “total cost” solution and time allotment for training including material and determination of optimal mix to reach the desired training proficiency
- Review a literature review based on expert findings
- Develop, submit and present a business presentation

**Product:**

- Examined current training material and procedures
- Develop a methodology for executing training
- Identifying optimal “total cost” solutions for training

**Process:**

- Students created problem/solutions to reach best results

**Required Materials and Resources:**

- Computers
- Word processing and presentation software
- Empirical Data related to staff training, Source options and cost/time allocation
- Information of Market Research about what other associated groups are using (i.e. U.S. Air Force and other military branches)
- List of recommendations from Federal Aviation Association
- Access to a Personal computer
- Transportation (bus) to work sites
- Computer and Internet / Web access for 2-3 project teams
- Computer with word-processing/Power-point/ presentation software

**Suggested Assessment Approaches:**

- Peer and self assessment
- Checklists
- Portfolios
- Learning Logs
- Teacher Observation
- Simulations