

AVMT 275
Tower Cab Training I
6 Credits

Community College of Baltimore County
Common Course Outline

Description

AVMT 275 – Tower Cab Training I: This course is the first of three qualifying courses for FAA Enhanced Collegiate Training Initiative (ECTI) program for air traffic control. This initial tower cab training course is designed for students who will be assigned to terminal FAA air traffic control facilities, or will apply to control towers participating in the federal Contract Tower program. Students will receive classroom and laboratory instruction and practice on tabletop and control tower simulation systems. Students must be admitted to the Enhanced Collegiate Training Initiative (ECTI) program to register for this course. This course is only offered in fall or spring semesters and will not be offered in winter or summer semesters.

pre-requisites: permission of the program coordinator

Overall Course Objectives

Upon completion of this course, students will be able to:

1. explain the air traffic control On-the-Job-Training (OJT) and certification process;
2. describe facility training program processes (OJT, evaluations, records);
3. explain factors affecting human performance in air traffic control (ATC);
4. demonstrate duties of a terminal controller;
5. label basic aircraft characteristics and categories;
6. explain tower equipment and its functions;
7. disseminate tower weather observations;
8. input data into the airport surface observation system (ASOS);
9. explain airport uses and lighting;
10. label the Academy Field airport map; and
11. describe the Academy Field airspace and instrument procedures.

Major Topics

- I. Overview of Initial Tower Cab Training and the Enhanced Collegiate Training Initiative Program
- II. Air Traffic Facility Training Overview, Evaluation, and Statistical Data
- III. Human Factors in Air Traffic Control
- IV. Roles and Responsibilities of a Terminal Controller
- V. Aircraft Characteristics and Recognition
- VI. Tower Equipment Familiarization
- VII. Disseminating Weather
- VIII. Introduction to the Automated Surface Observation System

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

- IX. Airport Conditions, Uses, and Lighting
- X. Academy Airport Layout
- XI. Academy Airspace and Instrument Procedures

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Five written tests which include multiple choice and map/diagram reconstructions
- A comprehensive Final Exam
- Four practical evaluations in the tower simulator lab

Other Course Information

This course contains material from FAA Courses 50045 - Air Traffic Basics, and 50046 - Initial Tower Cab Training and is the first of three qualifying courses toward the FAA special hiring authority under the Enhanced Collegiate Training Initiative (ECTI) program.

Date Revised: 10/21/2025