



## SUMMARY

This course covers the basic concepts of Controlled Flight into Terrain (CFIT), including: CFIT risks, flight crew errors leading to CFIT, and systems and procedures designed to prevent CFIT occurrences.

Analysis of two specific CFIT accidents is included.

## TARGET POPULATION

The Pelesys CFIT course is designed for Professional Pilots requiring initial or recurrent training.

## REGULATORY COMPLIANCE

- ICAO Doc 10004 GASP
- ICAO Controlled Flight into Terrain (CFIT) Education and Training Aid
- GM1 CAT.OP.MPA.290 & 295
- AC 61-134



Versions Available:  
Standard

Course Length:  
1 hr 25 min

## LESSON 01: Basic Concepts

In this lesson we will cover the basic concepts of Controlled Flight into Terrain, (CFIT) including:

- Definition
- Statistics
- Trends
- Terrain Awareness and Warning System (TAWS)

## LESSON 02: CFIT Risks

In this lesson, we cover CFIT risks including:

- Terrain and obstacles
- Environment
- Visual illusions including the effect of runway slope / width, lighting and obstructions to visibility
- Operational procedures
- Communications

## LESSON 03: Flight Crew and CFIT

In this lesson, we cover flight crew errors leading to CFIT including:

- Lack / loss of situational awareness
- Altimeter setting errors, cross checking, QNH and QFE, and metric altimeter settings
- Human Factors, automation, crew resource management and communications errors

## LESSON 04: Terrain Awareness and Warning Systems

In this lesson, we cover systems and procedures designed to prevent CFIT occurrences including:

- Ground Proximity Warning Systems (GPWS)
- Enhanced GPWS

## LESSON 05: CFIT Prevention

In this lesson, we cover systems and procedures designed to prevent CFIT occurrences including:

- Aircraft equipment
- Minimum Safe Altitude Warning Systems (MSAWS)
- Crew Resource management

## LESSON 06: CFIT Accidents

In this lesson, we cover two specific CFIT accidents:

- UPS 1354 in Birmingham, Alabama
- First Air Flight 6560 in Resolute Bay, Nunavut, Canada

## LEARNING TIME AND RUN TIME

This course has a learning time of: (run time plus additional time per page to account for understanding learning points)

- 1 hr 25 min

This course has a run time of: (the base time for each page to be completed)

- 50 min

## Exam Generation System (EGS) Banked Questions

The total amount of banked questions for this course is:

Lesson Title	Standard Questions
Basic Concepts	3
CFIT Risks	10
Flight Crew and CFIT	6
CFIT Accidents	3
CFIT Prevention	5
	<b>27</b>

## REFERENCE MATERIAL

This course provides the core elements of the CFIT training, ground school component outlined in the:

### ICAO

- ICAO guidance material on Ground Proximity Warning Systems (GPWS) APRAST/3-WP/6 Annex B
- ICAO Annex part 6 1 (2.6.1.2 and 2.7.1.1)
- ICAO Doc 10004
- ICAO CFIT Education and Training Aid
- ICAO Safety Report 2017 and 2016

### IATA

- IATA Safety Report 2015
- IATA Controlled Flight into Terrain Analysis Report 2014

### EASA

- EASA Subpart D (ATPL) AMC 1 FCL510 (15 December 2011)
- EASA GM1.CAT.OP.MPA.290 & 295

### FAA

- FAA Advisory Circular 61-138
- FAA Advisory Circular 61-134
- FAA Controlled Flight into Terrain Education and Training Aid

This course material may be supplemented when used in conjunction with any of these Pelesys courses: Windshear and Stabilized Approach / Low Energy Go Around.

The operator remains responsible for obtaining approval from the regulatory authority.

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