



**Course Level**

**IFP Advanced**

## **Collision Risk Model Master Class**

<b>Duration</b>	5 days		
<b>Tuition Fee</b>	CHF 3000 per participant		
<b>Instructors</b>	Nils Lundström		
<b>Certificate</b>	ANI Certificate		

<b>Questions at a glance</b>	<b>Answer</b>
<b>ICAO recognised?</b>	No, there is no such thing as an ICAO recognition for training. ANI is a State-approved training provider and complies with all ICAO training regulations.
<b>Pre-requisites?</b>	Yes. Please see below for details.
<b>Does ANI provide accommodation?</b>	No. Please check the hotel list provided in the location documentation.
<b>Daily schedule?</b>	9.00 - 16.00 or as communicated by the instructor
<b>Venue?</b>	Please check the information in the course calendar.
<b>Mobile Phones?</b>	Absolutely and strictly forbidden in the class!

## 1. ANI IFP Advanced Courses

The ANI IFP advanced courses are aimed at already trained and somewhat experienced Flight procedure Design personnel.

## 2. Course Description and Terminal Objectives

The Collision Risk Model is a bit of a black box for many Flight procedure Designers and IFP software programmers alike. Now that there will soon be an official CRM software by ICAO again (currently in the testing phase), we believe it is vital to educate the Flight Procedure Design community about the details, advantages and disadvantages of the CRM. What is possible and also what is NOT possible. After this course, participants will have a solid understanding of the CRM.

## 3. Course Rundown

Topic	
Data Collection	
Distributions and iso-probability	
Joint probabilities/shadowing	
Coordinate systems/map projection	
Obstacle types, spikes/walls	
plane projected vs. spherical	
Modeling of manmade structures	
Modeling of terrain	
Obstacle density	
Relationship OAS/CRM	
ICAO Circular 345 implications	
CRM file format	
CRM output	

## 4. Target Audience

Flight Procedure Designers

## **5. Pre-requisites**

Participants must be trained Flight procedure Designers or Software Engineers.