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Challenging the Status Quo of Aviation Training

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Aerosim **ETHOS**[®]
PILOT TRAINING

Challenging the Status Quo
of Aviation Training



The Aerosim Story

In 1993, Aerosim was founded based on a discussion with an airline pilot who was explaining how complicated the Flight Management System was in the aircraft. The challenge was no one could produce an FMS training solution on a desktop computer.

1998-2005: Incredible growth period with product line

2009: Acquisition of Delta Connection Academy

2010: Aerosim Training Solutions founded (Part 142)

Today, Aerosim delivers training solutions and products to three main customer bases:

- Pilot Training for an ab-initio through Type Rating
- Airlines and Training Centers
- Government and Military

Our Customers, Over 180 Strong

Aeromexico (Boeing)
Aerolíneas Argentinas (Boeing)
Aerostar Training Services
Agusta Westland
Air Astana
Air Canada
Air Canada Jazz
Air China
Air France
Air New Zealand
Air Nippon
AirTran (SWA)
Alitalia
All Nippon Airways (ANA)
Aloha Airlines
American Airlines
Arizona State University
Andrews Air Force Base
Atlas
AVIANCA
Aviation Research Center
Boeing Corporation
British Airways
Bombardier

CanJet
China Eastern
China Southern
Cirrus Aircraft
CommutAir
Copa Airlines
Delta Air Lines
DHL Aero Expreso
Dubuque University
Dubai Aerospace
Flybe
Emirates
Embraer
Embry Riddle University
Envoy
Ethiopian Airlines
EVA Airways
Egypt Air
ExpressJet
Far Eastern Air Transport
FedEx
FlightSafety International
FlyDubai
Finnair Flight Academy

GOL Intelligent Airlines
Hainan
Hawaiian Airlines
Henderson State Univ.
Horizon Air
Island Air
Jacksonville University
Japan Air Commuter
Japan Airlines
Jetstream Aviation
JetBlue
Kansas State University
Kenya Airways
LATAM Airlines Group
Lewis University
Lufthansa
Miami Air
Middle Tennessee State
Minnesota State Mankato
National Airlines
Omni Air International
PSA Airlines
Polar Air Cargo

QantasLink
Shenzhen Airlines
SkyWest (USA)
SkyWest (Australia)
South African Airways
Southwest Airlines (SWA)
Spirit Airlines
St. Cloud State University
Sun Country Airlines
Sun Express
SunWing
TAM Airlines
Thomas Cook Airlines
Tianjin Airlines
TRU
United Airlines
UPS (United Parcel Service)
US Airways
United Parcel Service
University of North Dakota
Virgin Atlantic
Xiamen Airlines
WestJet Airlines

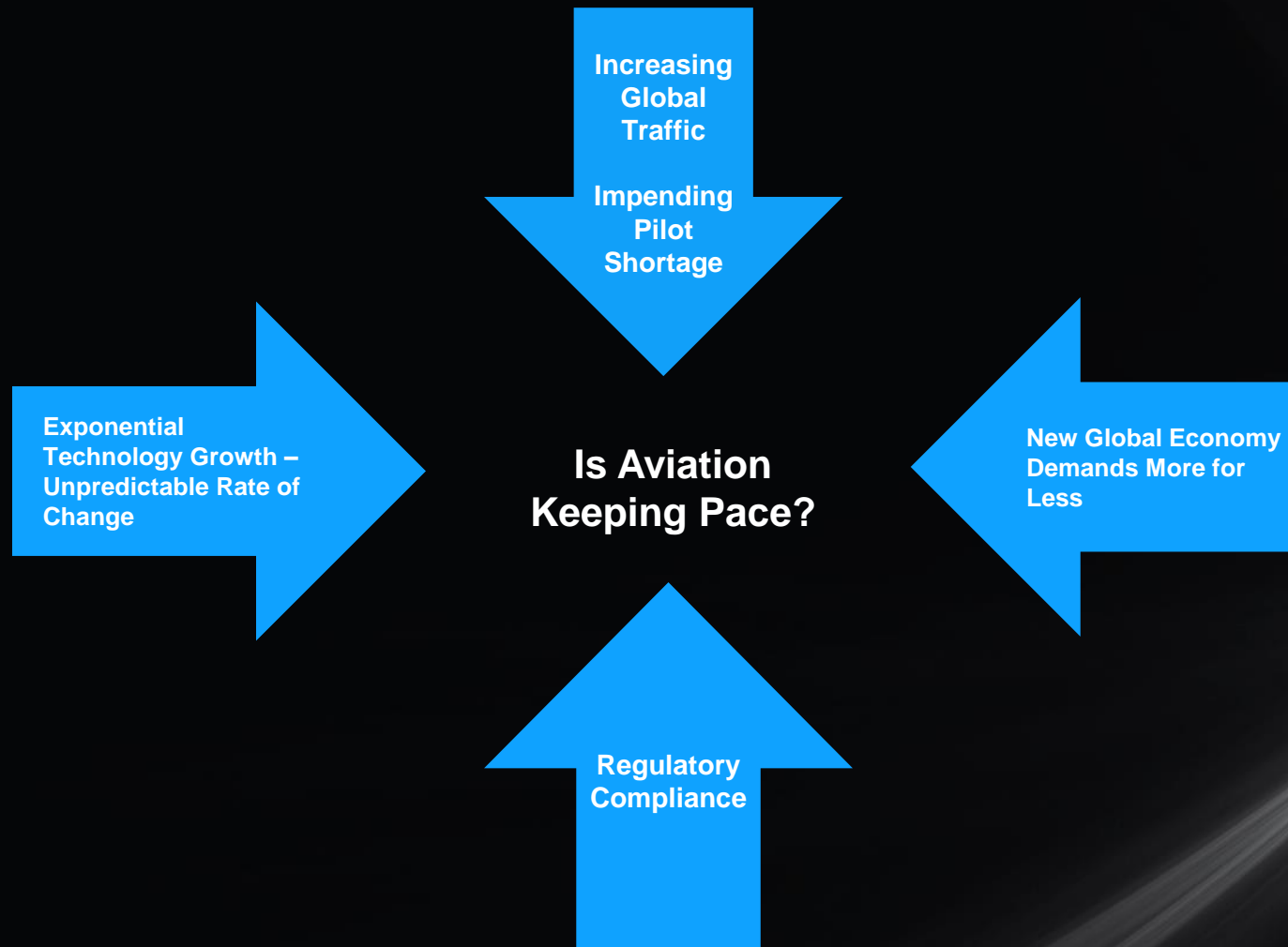
Generational Shift Occurring in Aviation Training

- Management acceptance of new training technology
- Students going to flight academies for a direct career path to become a professional pilot
- New levels of economic accountability forcing a holistic “rethink” of how to best train pilots and technicians

Technology is Advancing

- Improving the quality of simulated training, while creating efficiency and reducing costs
- Lower cost training devices offset time in the Full Flight Simulator
- Distance learning, mobile devices enables training anytime, anywhere
- Reducing costs and footprint

Broader Pressures are at Work



The Opportunity

To challenge the status quo of the aviation training continuum.

The Aerosim approach?

Supplying the world with better pilots by harnessing technology to shift training effectiveness earlier in the continuum.

Your pilots don't just fly. They are on a journey. One, continuous mission to be the best, most consistent pilots they can be. That's why at Aerosim, we approach training with the same dedication to continuum.

The future requires a new approach.

Integrated Products for Efficiency in Training

Aerosim **ETHOS**[®]
PILOT TRAINING

Pilot Training

Self-paced Learning/Distance Learning

Instructor-led Training

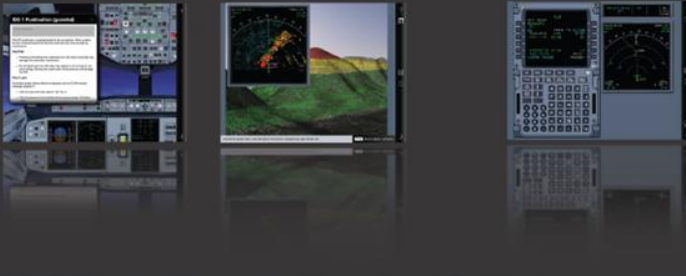
Systems Knowledge

DISTANCE LEARNING

Knowledge Preparation

+

FMS Skills



Procedure Training

DISTANCE LEARNING

TRAINING CENTER

Procedure Skills Lessons*

+

Procedure Practice



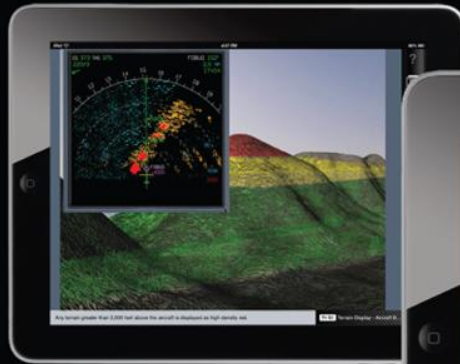
Procedure Training



Systems Knowledge

Systems Knowledge

Cockpit Familiarization



Aircraft Systems & General Subjects



FMS Skills



Practice Exam





CRJ700 ACARS
Trainer for PSA




Cockpit
Familiarization



FMS Skills



FMST Freeplay



Practice Exam



Aircraft Systems



Systems Knowledge

COCKPIT FAMILIARIZATION



▼ Cockpit Familiarization

	<i>Est. Run-Time</i>	<i>Lesson Progress</i>	
Cockpit Familiarization	🕒 1:00:00	COMPLETED	REVIEW

Systems Knowledge



Learning Management System (LMS)

All products are designed to interface with an LMS for progress tracking, recording and course completion data. LMS Progress reports available. Content is AICC / SCORM compliant.

Systems Knowledge



Cockpit Familiarization

Study tool to help pilots prepare for their oral exam and checkride by delivering detailed system information for every panel, switch, light, and display in the flight deck.



APU FIRE PUSH Switchlight

Study

CLEAR

IMAGE

Arms the APU bottle squib.

Closes the APU bleed air load control valve and turns off the APU fuel pump.

- APU FIRE PUSH (red) light indicates that a fire is detected in the APU enclosure.



Systems Knowledge



Aircraft Systems & General Subjects

Provides structured courseware learning with multiple distance learning deployment methods. Includes aircraft systems and general subjects.




CRJ700 ACARS
Trainer for PSA




Cockpit
Familiarization



FMS Skills



FMST Freeplay



Practice Exam



Aircraft Systems



Systems Knowledge

AIRCRAFT SYSTEMS



▼ Aircraft Familiarization

	<i>Est. Run-Time</i>	<i>Lesson Progress</i>	
System Description	13:30	0%	RUN

▼ Air Conditioning

	<i>Est. Run-Time</i>	<i>Lesson Progress</i>	
System Description	11:45	0%	RESUME

▼ Ventilation

	<i>Est. Run-Time</i>	<i>Lesson Progress</i>	
System Description	12:45	0%	RUN

▼ Pressurization

	<i>Est. Run-Time</i>	<i>Lesson Progress</i>	
System Description	17:15	0%	RESUME

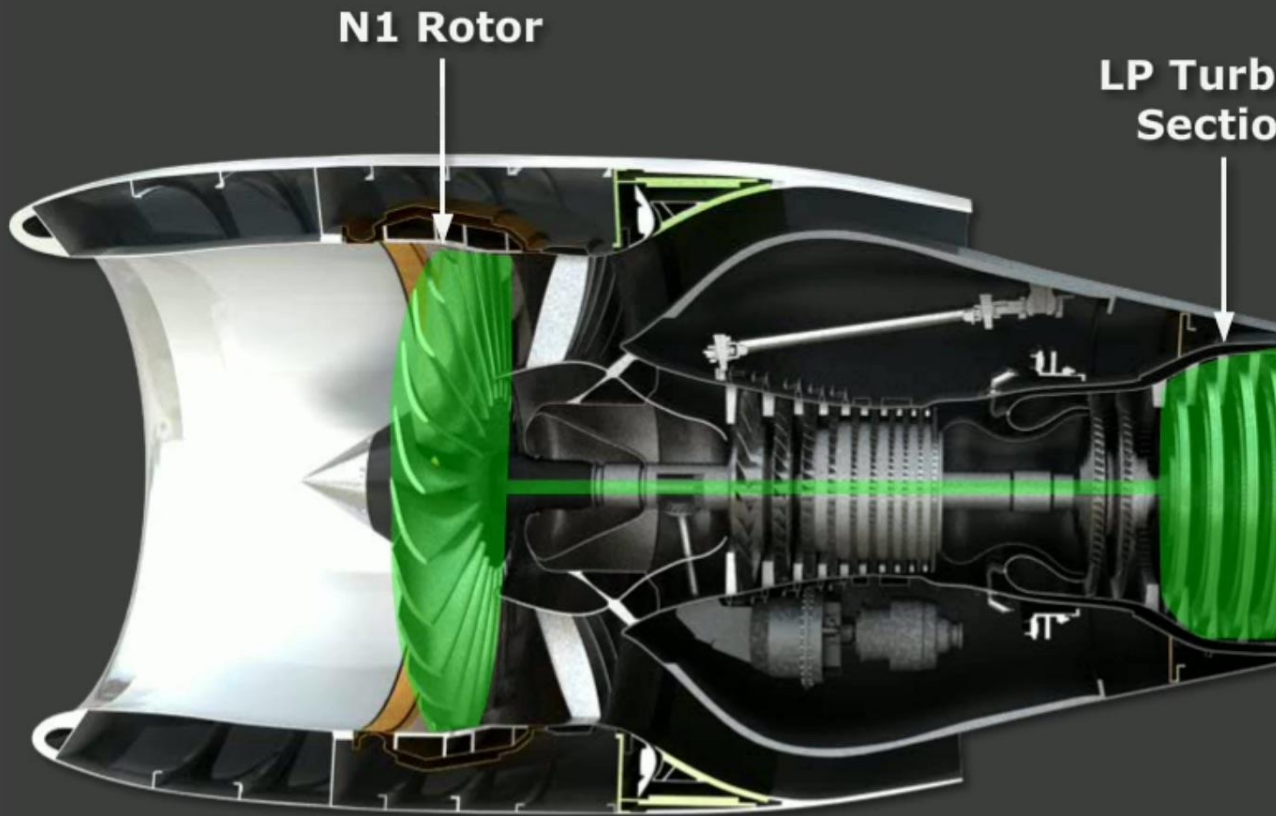
▼ Autoflight

	<i>Est. Run-Time</i>	<i>Lesson Progress</i>	
System Description	52:00	4%	RESUME

▼ Communications

	<i>Est. Run-Time</i>	<i>Lesson Progress</i>	
System Description	29:00	0%	RUN

▼ Electrical



TEXT

INDEX

Each engine contains an N1 fan rotor and an N2 compressor rotor.

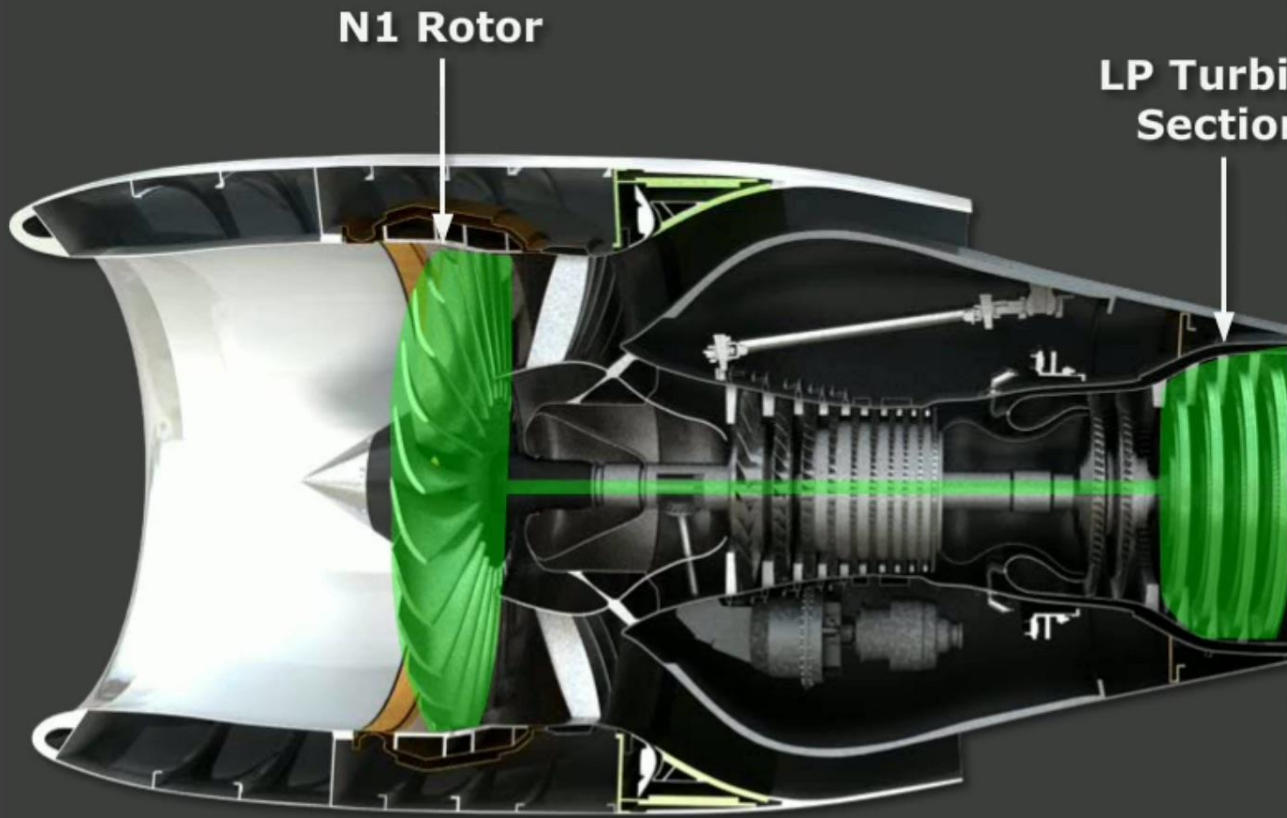
The N1 rotor consists of a single stage fan connected to a 4-stage low pressure turbine.

The N2 rotor is a 10-stage compressor connected to a 2-stage high pressure turbine.



Est. Time Remaining
01:21





TEXT

INDEX

- 1 Overview
- 2 Ignition during Engine Start
- 7 Starting System**
 - 1 Overview
 - 2 Operation
- 8 Self-Assessment**
 - 1 Question 1
 - 2 Question 2
 - 3 Question 3
 - 4 Question 4
 - 5 Question 5
 - 6 Question 6
 - 7 Question 7
 - 8 Question 8



Est. Time Remaining
01:21



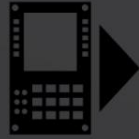


CRJ700 ACARS
Trainer for PSA

Cockpit
Familiarization



FMS Skills



FMST Freeplay



Practice Exam



Aircraft Systems



General Subjects

Systems Knowledge

GENERAL SUBJECTS



Adverse Weather and Windshear

	Est. Run-Time	Lesson Progress	
Overview	🕒 43:45	📊 0%	RESUME

CFIT and ALAR

	Est. Run-Time	Lesson Progress	
CFIT	🕒 23:30	📊 0%	RESUME
ALAR	🕒 31:45	📊 0%	RUN

Human Factors

	Est. Run-Time	Lesson Progress	
CRM and Decision Making	🕒 34:45	📊 0%	RESUME
Threat and Error Management	🕒 18:45	📊 0%	RESUME

High Altitude Operations

	Est. Run-Time	Lesson Progress	
Overview	🕒 37:30	📊 0%	RUN

RVSM

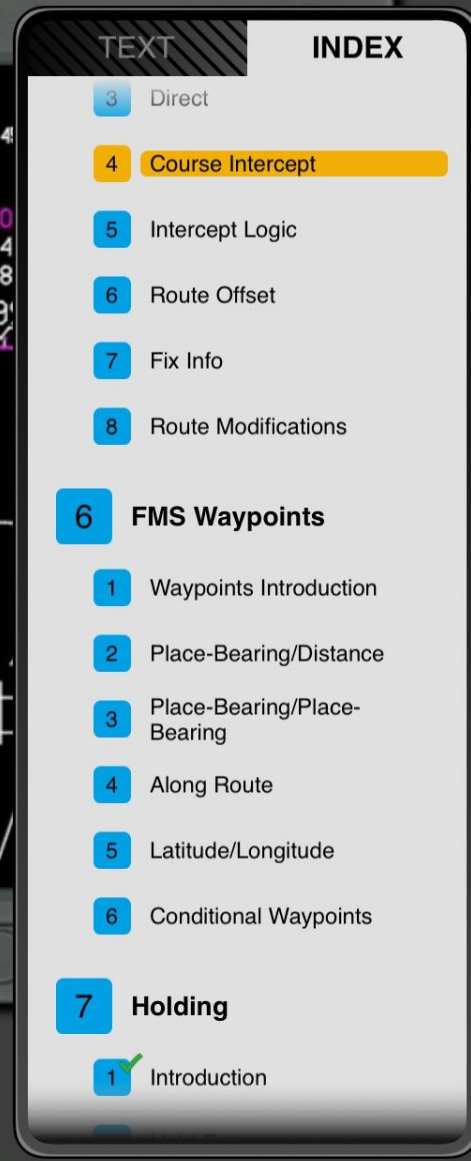
	Est. Run-Time	Lesson Progress	
Overview	🕒 20:30	📊 0%	RUN

Systems Knowledge



FMS Skills Lesson

Scenario-based and interactive lesson teaching every step of FMS, autoflight, and navigation during all phases of flight.



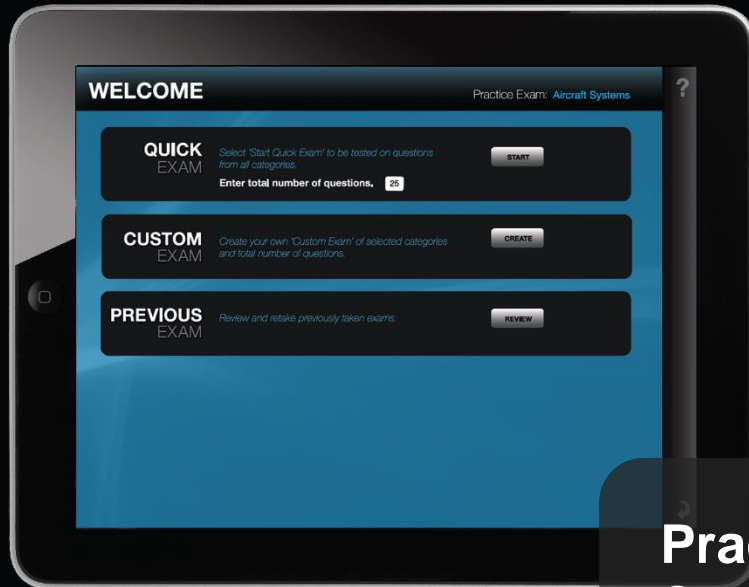
ATC: "Bluestreak 5051, when able, intercept the 350 degree course to HICKI."

Est. Time Remaining
00:22

Enter 350 into the INTC CRS line and execute the change.

***Action Required**

Systems Knowledge



Practice Exam

Generates exams based on aircraft system categories and desired number of questions. Start a quick exam or create custom exams, and review, retake, or continue previous exams.

QUICK EXAM

Start a Quick Exam to be tested on questions from all categories.

START

Enter total number of questions

CUSTOM EXAM

Create your own Custom Exam of selected categories and total number of questions.

CREATE

Custom Exam 1 August 6, 2015

START

INFO

Custom Exam 4 October 27, 2015

START

INFO

Custom Exam 5 November 3, 2015

START

INFO

PREVIOUS EXAM

Review, retake, or continue previous exams.

REVIEW

STEP 1

Create exam name *(Limit 20 characters)*

Custom Exam 1

STEP 2

Select exam categories

Select all

- ACARS
- Air Conditioning
- Aircraft Familiarization
- APU
- Autoflight
- Communications
- Differences
- Doors and Windows
- EICAS
- Electrical
- Emergency Equipment
- Engines
- Fire Protection
- Flight Controls
- Flight Instruments
- Fuel
- Hydraulics
- Ice and Rain Protection

STEP 3

Select the total number of questions

215

(215 available for selected categories)

STEP 4

Create custom exam

(Selecting 'Cancel' will return to Welcome screen without saving)

CREATE

CANCEL

Systems Knowledge

Within one application, Systems Knowledge combines the tools necessary to master cockpit familiarization, aircraft systems, general subjects, and FMS skills.

Benefits:

- Self-paced Learning/Distance Learning
- Mastery of Aircraft Systems, General Subjects, and FMS
- Reduced in-house Training Costs
- Self-assessment and Testing Capabilities
- Learning Management System (LMS) with Administrative Access (Students Reports)
- Additional options can be added to Suite (ex. ACARS Trainer, Free-Play FMST)



Prepared. For Takeoff.

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