



Flight Operations Directorate

Flight Integration – Training Branch

JSC Crew Training Overview

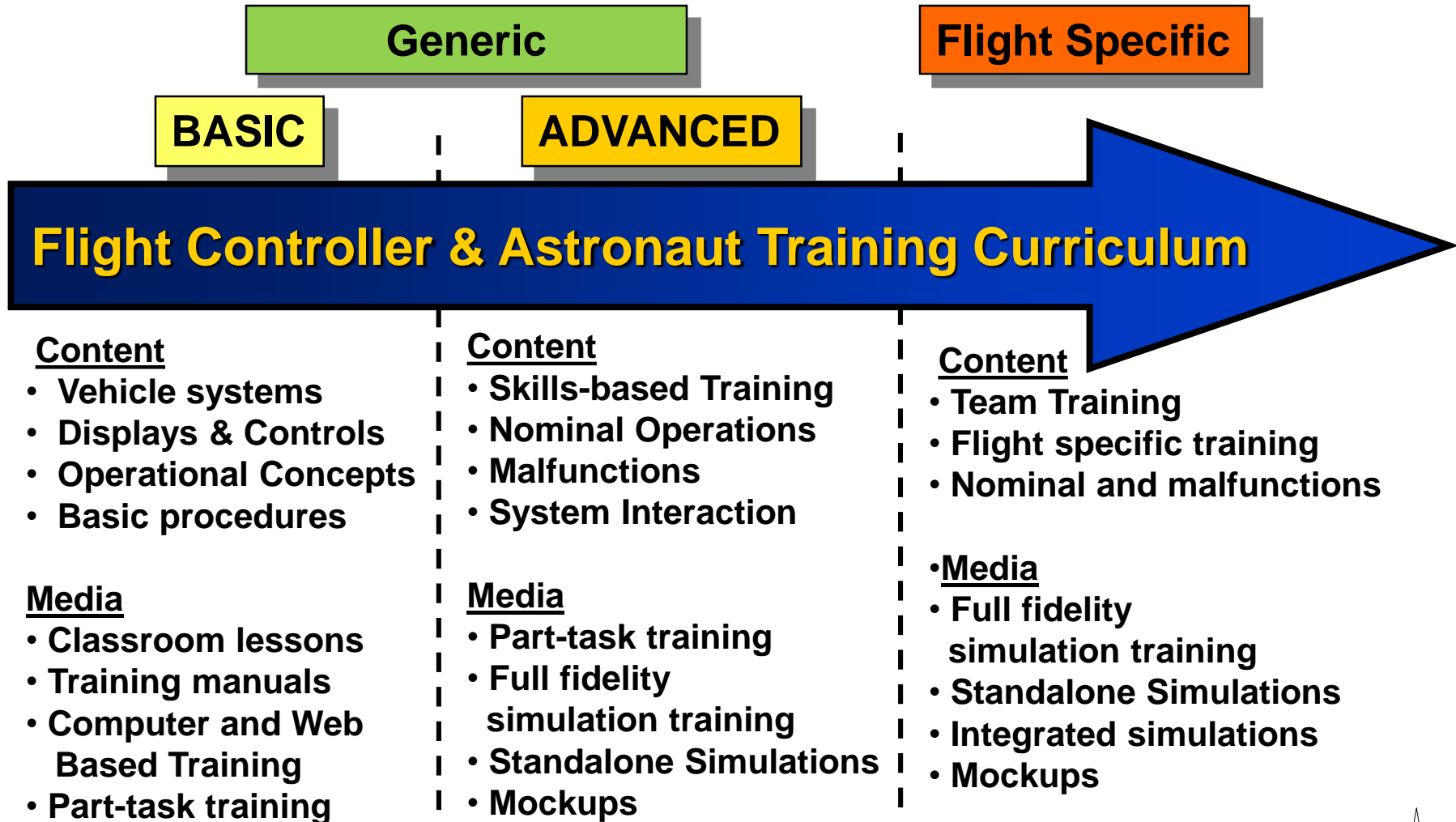
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October 2017

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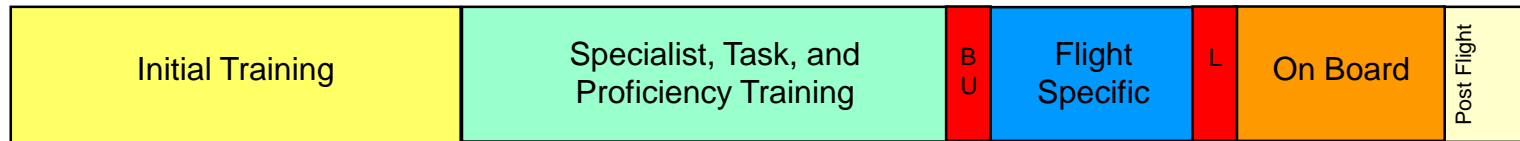
3 Phase Spaceflight Training Concept





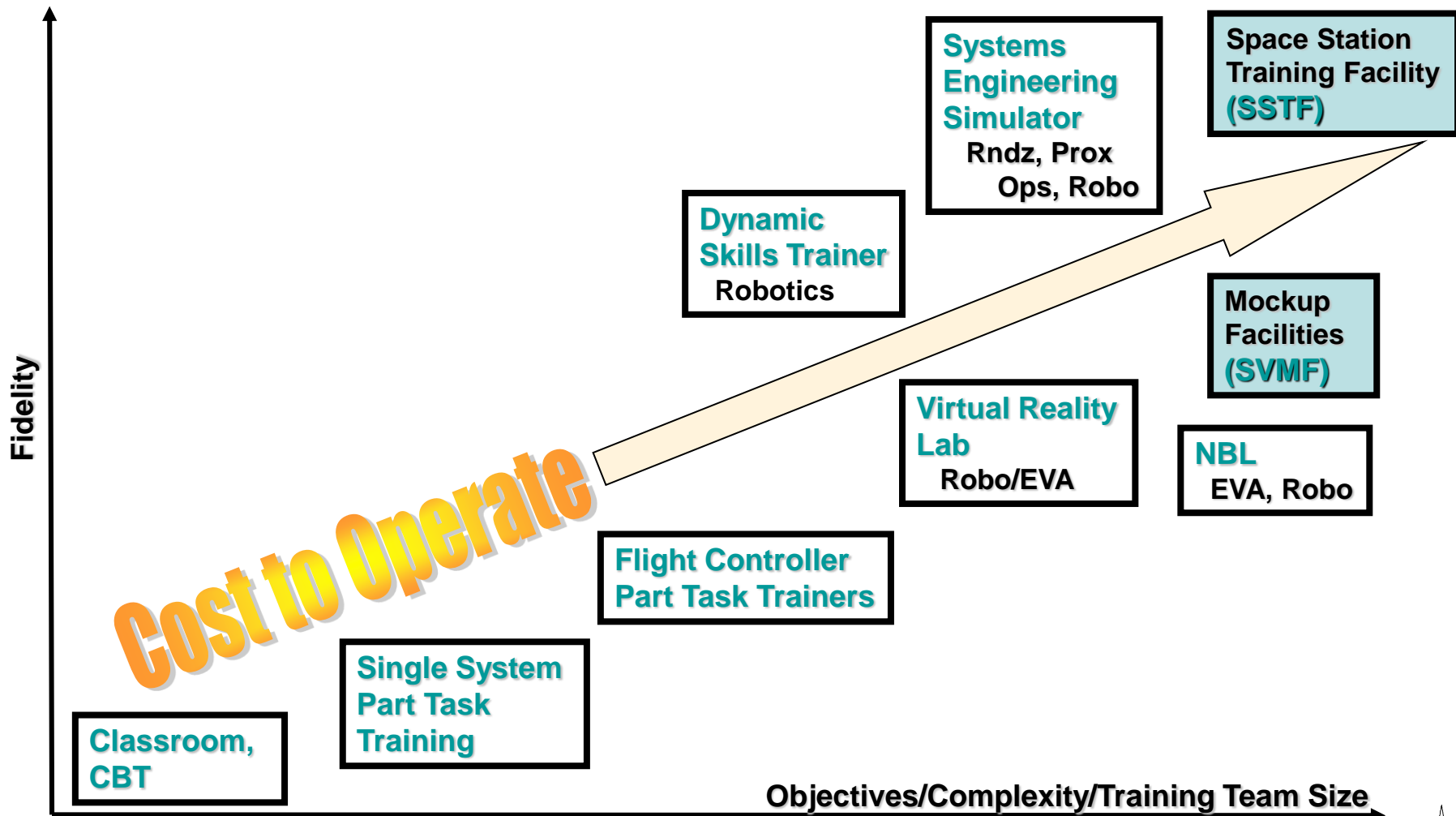
Crew Training Approach

- The amount and depth of the Crew training is based on their assigned qualification level
- User
 - Utilize systems to safely live on ISS
- Operator
 - Nominal and maintenance tasks
 - Off-nominal with immediate safing
 - All User tasks
- Specialist
 - Off-nominal tasks with ground help
 - All Operator tasks





Training Facility Selection





Online Training Library

E-LESSONS Node 1 Depress Scenario (00:05 / 44:49) ECG Glossary & Acronyms Help Resources

Menu

- 1. Introduction
- 2. Objectives
- 3. Depress Strategy Overview
- 4. Lesson Layout
- 5. Common Emergency Response
- 6. Leak Check Soyuz
- 7. 1.7 USOS Aft Leak Pinpoint
- 8. 1.7 USOS Aft Leak Pinpoint (Co...)
- 9. 3.1 Node 1 Equipment Retrieval
- 10. Summary

MOD eLearning Module
Node 1 Depress Scenario

FOD Online Training Lessons

LESSONS | TA HOME | ILRT | FOX | HELP | FEEDBACK | CONTACTS | DEVELOPMENT | ABOUT

Spotlight Lesson 1

OPTIMIS Viewer - Boot Camp Introduction

This short introductory video will give you a brief history of OPTIMIS Viewer, why it's important, and how it is used.

Duration: approx. 4 mins.



Spotlight Lesson 2

OPTIMIS Viewer - Colors and Symbols

This OPTIMIS Viewer module will describe the various colors and symbols for activities seen in Timeline View.

Duration: approx. 7 mins.



Lessons currently only support Internet Explorer

E-LESSONS Node 1 Depress Scenario (32:41 / 44:49) ECG Glossary & Acronyms Help Resources

Menu

- 1. Introduction
- 2. Objectives
- 3. Depress Strategy Overview
- 4. Lesson Layout
- 5. Common Emergency Response
- 6. Leak Check Soyuz
- 7. 1.7 USOS Aft Leak Pinpoint
 - 7.1. Best Practices
 - 7.2. Check Your Understanding
- 8. 1.7 USOS Aft Leak Pinpoint (Co...)
- 9. 3.1 Node 1 Equipment Retrieval
- 10. Summary

1.7 USOS AFT LEAK PINPOINT
Ingress USOS
Review Crew Roles & Responsibilities

ALL CREW COMPLEMENTS

1.7 USOS AFT LEAK PINPOINT
(Called by 1.4, step 3 or 16)
(EMER-1a/53P -- ALL/MULTI R, A/FIN/Paper on ISS) Page 1 of 6 pages

WARNING
After each Hatch closure, if T.res < 10 minutes, evacuate US Segment, account for crew, and close FGB GA-PMA1 Hatch.

1. **USOS INGRESS**
Open Node 1 Aft Hatch (if required).
Retrieve PBA's for each crewmember, if required.
Ingress USOS and report to MCC-H.

MCC-H To terminate utilization of USOS atmosphere, perform step 17.

◀ PREV NEXT ▶

ALL (18) CREW (97) FC & INSTRUCTOR (381) TRAINING ACADEMY (10) MISC. BRIEFINGS (50)

PROGRAM (ALL)

LESSON TITLE	PRESENTER	DURATION	STATUS
▶ Fire Strategy & Hardware	Dara Johnson	00:58	Current
▶ Introduction to ISS Fire and Toxic Atmosphere Response	Jason Hutt	01:11	Archive
▶ ISS Crew Health Care Systems - ChEC	Bob Tweedy, Elisa Hicks, Melinda Hailey	01:15	Current
▶ Node 1 Emergency Depress	Kathy Bolt	00:45	Current
▶ Node 2 Fire Scenario	Daniel Forrester	00:45	Current
▶ Non NH3 Toxic Atmosphere Response Scenario	Kathy Bolt	00:45	Current
▶ PLUTO 2014 Q4 Proficiency: ISS Emergency Overview	Steve Tripodi	01:02	Current
▶ Shuttle Crew Habitability	Adam Flagan	01:09	Archive
▶ Space Shuttle Medical Operations	Howard Better	01:10	Archive
▶ Toxic Atmosphere Crew Response	Scott Segadi	01:26	Current
▶ Toxic Atmosphere Emergency Response	Kaz Voeloesang	01:45	New

Click ▶ to view lesson details





Part Task Trainers

- PTT – Part Task Trainer
 - Single System nominal and off nominal instruction
 - Procedure execution and display navigation skills
- FCPTT – Flight Controller Part Task Trainer
 - Multi-system, Integrated scenario training
 - Team coordination and communication in ‘mini-flight control room’





Space Station Training Facility

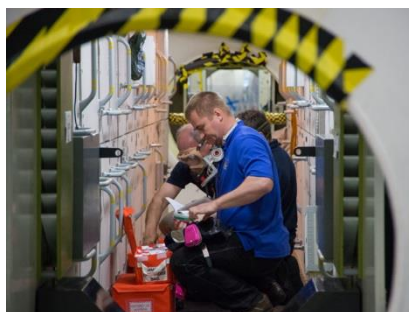
- Full scale, multi-system integrated scenarios
- Simulated crew and crew station mockups
- Full team coordination and communication in training Flight Control Rooms (FCRs)





Space Vehicle Mockup Facility

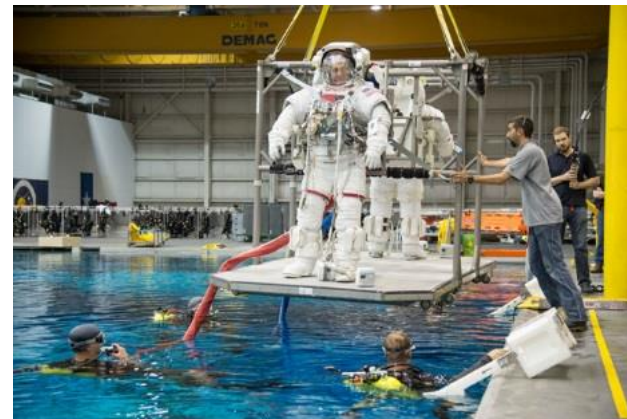
- Full scale ISS mockups
- Routine Ops / Day in the Life training
- Emergency response scenarios
- Payload racks and hardware training





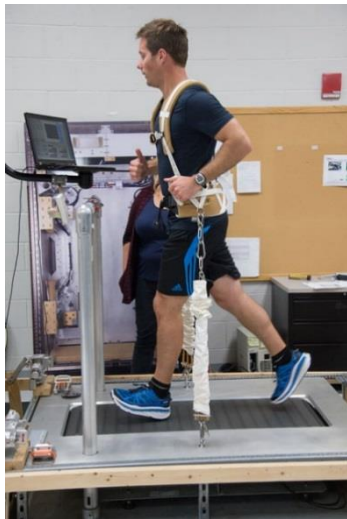
Neutral Buoyancy Lab

- Full scale ISS mockups / Truss segments
- Extra-vehicular Activity (EVA) Training
- Commercial Crew / Orion recovery





Medical / Physical Training





Ellington Airfield Operations

