F-35 Training Systems and Simulation PMO

Training Systems

THRU

ADVANCED

BASIC

Family of Trainers
(large to small footprint)
Aligned w/ Aircraft Capes
High-Fidelity Environment
Modern HW & SW Architecture

Distributed Mission Training

Enabling Lethality via a family of connected trainers in a high-fidelity environment

Joint Simulation Environment
Gov’t-owned, High Density Threat Environment

Integrates High-Fidelity models (F-35, In-A-Box, Red Forces, Blue Forces, weapons, datalinks) that provide an operationally relevant, simulated environment

Enables F-35 capability verification and experimentation via 14 simulators that can replicate Blue and Red Air. Leverage environment for training

Networking F-35 FM/Sims globally
Virtual Constructive cross-platform training
Links multiple Sims via network

Effects Based Simulator that provides a scalable architecture across various hardware form factors (small, deployable) suitable for F-35 tactics development and training.
F-35 Training Systems and Simulation PMO
Baselined to enable F-35 Lethality

Air Vehicle Alignment
Threat Fidelity Improvement

Develop Sim Interoperability
Next Gen Training ‘Family’ & Re-Architecture

Roadmap FY22-27
- Aircraft Capabilities < 6-wks into Pilot Trainers
- Threats are operationally relevant with realistic behaviors
- JSE:
  - Complete IOT&E
  - Transition to block 4
  - Small footprint, Trainer developed and fielded
  - 100% FMSims DMT capable

Deliver
- 90 trainers and courseware delivered across the F-35 enterprise
- JSE: Air-System alignment for follow-on F-35 capability verification

Sustain
- >150 Trainers across 20 sites
- FMSim Tech Refresh
- Optimizing Trainer Availability
- CPFH Affordability Target by end of FY25
Key Takeaways

Training and Simulation will be the **ONLY** way we can test and assess F-35 *evolving* capabilities.

Training in an *operationally relevant* simulated environment = LETHALITY

Without a properly trained operator...it does *not matter* what the aircraft “can do”

To achieve the PMO Vision, and meet the training needs of the warfighter, *proper resourcing and continued advocacy are required*.