Enhancing Test & Evaluation Productivity: OT&E

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March 14, 2012
Identifying and Managing Risks

Risks (known & unknown) exist throughout the program’s life

- Poor FOD control in assembly area (high risk)
- Lack of detail in assembly procedure (medium risk)
- Change in critical process at supplier (unknown risk)

Application of mission assurance can minimize the risks and maximize the probability that the failure path is interrupted
Failure Trending: Identifying Risks and Improving Operations

Potential Failure Risks

Design & Performance Risk

E&D Test

Dev Test & Evaluation

Op Test & Evaluation

Operations & Sustaining Engineering
Failure Trending: Identifying Risks and Improving Operations

Hazard Control

FMEA

Potential Failure Risks

Design & Performance Risk

E&D Test

Dev Test & Evaluation

Op Test & Evaluation

Operations & Sustaining Engineering
Failure Trending: Identifying Risks and Improving Operations

Hazard Control

Potential Failure Risks

Design & Performance Risk

E&D Test

FMEA

Failure Reporting System (FRACAS)

Dev Test & Evaluation

Op Test & Evaluation

Operations & Sustaining Engineering

Test Failure Feedback
Failure Trending: Identifying Risks and Improving Operations

Improving system performance by collaboration between DT and OT

Hazard Control
FMEA
Potential Failure Risks
Design & Performance Risk
E&D Test
Dev Test & Evaluation
Op Test & Evaluation
Operations & Sustaining Engineering

Test Failure Feedback
Ops Failure Feedback