

# **Exercise 3: Task Interval Determination and Consolidation**

# **Objective**

The objective of this exercise is to establish effective task intervals and consolidate maintenance tasks to optimize efficiency while maintaining safety and operational reliability. This process ensures that maintenance schedules are both cost-effective and compliant with MSG-3 criteria.

# **Steps to Achieve**

#### **Interval Parameters**

Evaluate all available data to determine appropriate intervals for each maintenance task. This step involves analyzing:

- Failure rates from historical data and reliability studies.
- Manufacturer recommendations, including service bulletins and advisory documents.
- Operational conditions, such as aircraft usage patterns, environmental factors, and mission profiles.
- Determine intervals that balance cost-effectiveness with the required safety and reliability levels.

## **Task Consolidation**

Review the identified tasks and their intervals to identify opportunities for consolidation. Tasks that can be performed together during the same maintenance window should be grouped to reduce downtime and increase efficiency.

Consider the following factors:

- Task compatibility and feasibility of performing them together.
- Access requirements and common zones or systems involved.
- Potential conflicts or overlaps that could affect task effectiveness.

### Review

Validate the determined intervals and consolidated task schedules against MSG-3 criteria. Ensure that:

- All safety-critical tasks meet the required intervals without exceeding allowable thresholds.
- Consolidation does not compromise the effectiveness of individual tasks.
- The final schedule aligns with operational needs and regulatory requirements.

## **Deliverable**

The deliverable for this exercise is a consolidated task schedule that documents the intervals and grouping of tasks for selected MSIs. This schedule should optimize maintenance planning and ensure compliance with MSG-3 standards.