



**EDUARDO CALIXTO**  
CONSULTANT

<b>Training Program</b>	<b>: ILS PROGRAM IMPLEMENTATION FOR MILITARY / AEROSPACE / RAILWAYS</b>
<b>Discipline</b>	<b>: LOGISTIC, RELIABILITY &amp; MAINTENANCE ENGINEERING</b>
<b>System</b>	<b>: MILITARY, AEROSPACE AND RAILWAYS ASSETS</b>
<b>Subsystem</b>	<b>: Military, Aerospace and Railways equipment</b>
<b>Training Focus</b>	<b>: ILS program implementation, Spare parts, maintenance schedule and LCC optimization</b>
<b>Lesson Code</b>	<b>: 0114</b>
<b>Lesson Title</b>	<b>: ILS implementation and optimization</b>

#### **Training Elements**

- AIA/ASD S3000L and JPS 886 concepts;
- ILS program implementation throughout life cycle;
- Reliability, Availability and Maintainability concepts;
- FMEA/RCM concepts;
- Level of repair analysis (LORA);
- ILS modeling;
- LCC Concept;
- Spare parts Optimization;
- Schedule Maintenance Optimization;
- LCC and Performance optimization.

#### **Training Objectives:**

- To understand ILS program phases concept as basic of ILS program implementation (AIA/ASD S3000L).
- To understand the ILS main factors such as Influence on design, Design the support solution, Support package, Acquisition of product, Supportability and requirement.
- To understand the interaction of RAM programs and ILS program.
- To understand how to use the result of RAM analysis, FMEA, RCM during LORA and ILS program implementation.
- To define the equipment list from system to LRU level.
- To understand how to assess all information from ILS assessment into Life cycle cost and opt.
- To optimize spare parts and maintenance schedules by minimizing lifecycle cost and/or maximize availability.

### Training Schedule

Day 1:

Subject	Activity	Time	Resources
Welcome and Introduction of participants and trainer, scope of training.	Theoretical	30 min	PPT
ILS program phases and basic concepts (AIA/ASD S3000L).	Theoretical	90 min	PPT
ILS factors	Theoretical	60 min	PPT
ILS interaction with RAM program;	Theoretical	60 min	PPT
<b>Lunch Break: 12:30 – 14:00 hrs.</b>			
Hierarchy definition from system level to LRU level	Theoretical	60 min	PPT
FMEA concepts and application	Practical	60 min	Templates
RCM concepts and application	Theoretical	60 min	PPT
LCC concepts and application	Practical	60 min	Templates

Day 2:

Subject	Activity	Time	Resources
FMEA case study	Theoretical	60 min	PPT
RCM case study case studies	Theoretical	60 min	Weibull software
RAM modeling Concept and cases study	Theoretical	60 min	PPT
LCC cases study	Theoretical	60 min	PPT
<b>Lunch Break: 12:30 – 14:00 hrs.</b>			
Spare parts concept and Optimization	Theoretical	60 min	ApmOptimizer (BQR)
Maintenance schedule and Optimization	Practical	60 min	ApmOptimizer (BQR)
ILS optimization case study	Theoretical	120 min	ApmOptimizer (BQR)