

## The Teachers

**Mr. Antonio Castellani** has more than twenty years of experience in Reliability and Logistics Engineering. He is involved both in technical and management activities in Space and Defense Projects. As Reliability Engineering Manager, he was involved in large programs, like IRIDIUM, Astrolink, Cosmo SkyMed, Cosmo Second Generation, GÖKTÜRK.



## The Company

Since 1974, INTECS has been operating at the forefront of the software market, where safety, reliability, innovation, and quality are essential ingredients for success. INTECS provides leading-edge software technologies to support the major European and Italian organisations in the design and implementation of advanced electronic systems for Defence, Space, and Civilian markets.

Intecs is ISO-9000 certified since 1994. Currently it holds ISO 9001:2008 quality certification for software development in Defense, Space, and Civilian domains. Moreover, Intecs Defence and ATC Divisions were positively appraised at CMMI® Maturity Level 3.



## General Information

### Location

Courses may be arranged in-house at the customer site upon request.

### Contact

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*the Brainware company*

## Integrated Logistics Support

*A three-days modular course*

## Integrated Logistics Support

Integrated Logistic Support aims at the development of material resources and services essential to support operation and maintenance of the system and control of associated operational risks, particularly in terms of utilisation cost and availability preparation and optimisation of the Support System, throughout the life cycle, aiming at minimum overall life cycle cost, according to requirements and operational risks. coordinating the activities and resources involved in

Integrated Logistics Support is addressed by ECSS-M-70A.

MIL standards also address Integrated Logistics Support (MIL-STD-1369; MIL-STD-1388/2B).

### The Course

The objective of the course is to introduce Integrated Logistics Support fundamentals, also addressing related Logistics measurements.

The course is organized in three days:

- Day 1: introductory discussion of Logistics objectives and elements, also addressing Logistics Supportability Analysis (LSA), Reliability, and Maintainability; Human factor, measurements of effectiveness, reliability, maintainability, and availability are included.
- Day 2: Details of Logistics Supportability Analysis (LSA) and analysis methods and tools are presented:
- Day 3: Logistics Management is addressed

Examples and exercises are significant part of the lessons.

### Intended audience

Large part of Day 1 should be attended by:

- Project Managers and System Engineers who need to understand how to manage Reliability, Maintainability, Availability requirements in their projects.

Day 1, Day 2, and Day 3 should be attended by:

- Logistics Engineers who need to understand approaches and concepts to be applied in ILS

process to be carried out within a system design and development project.

- System Designers and Developers who need to understand how to integrate actual design activities with Reliability requirements assurance process.

### Prerequisites

Participants are required to know system engineering basics.

### Benefits

Most of Day 1 course will primarily familiarize managers and engineers with ILS concepts and methods. They will then be able to interact with own customers, higher-level project managers, their development teams, and suppliers (if any). Moreover, they will know where to find more information, when necessary.

In Day 2 and Day 3 course Logistics Engineers and System Designers and Developers will be provided with concepts and methods to be applied in complex system projects.

### Material

The participants are provided with a copy of course handouts, including examples and exercises

## Course Outline

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### Day 1

**Logistics objectives and elements**

**Logistics Supportability Analysis (LSA)**

**Measurements of effectiveness, reliability, maintainability, and availability**

**System Analysis**

**Software Engineering**

**Reliability**

**Maintainability**

**Maintenance**

**Human factor**

**Measurements of Effectiveness, Reliability, Maintainability, and Availability**

**Life Cycle Cost (LCC)**

**Logistics Related Factors**

**System Engineering application**

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### Day 2

**Logistics Supportability Analysis (LSA)**

**Analysis Methods and Tools**

**Evaluation of Design options**

**Logistics Management Information (LMI)**

**Logistics in the System Utilisation, Sustaining Support and Retirement Phases**

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### Day 3

**Logistics Management:**