

Integrated Logistic Support (ILS) - An Overview

Overview

This course provides the delegate with an insight into the complex topic of Integrated Logistic Support [ILS] and the associated topic of Logistic Support Analysis [LSA]. The course is aimed at those personnel requiring an initial introduction to the subject and Project Managers requiring an overview only.

The course is designed to enhance the delegate's awareness of ILS, why it is required, what it is, who will be involved, when it should be implemented and how, albeit at a very high level. The problems and potential pitfalls will be discussed as well as the potential benefits.

The course is founded on the basic principles of ILS and LSA and is not driven by any existing or planned standards, although these are introduced and their relationship to these basic principles is explored. The course has a pragmatic style; whilst it introduces some new concepts the aim is that the delegates should be able to relate these concepts to existing practices.

Target Audience

This 1-day course is suitable for anyone who requires an introduction to ILS, whether they will be working as an ILS Practitioner or Manager or if they need to interface effectively with any element of the ILS function.

It is appropriate for delegates who have experience in ILS related topics, such as Reliability, Safety or Human Factors and who require a better understanding of their role in relation to other disciplines.

The course also serves as a cost-effective mechanism for updating members of management teams.

The course is designed to meet the needs of UK MoD, Contractor and other Defence Department personnel.

Objectives and Utility

The delegate will understand the fundamental need for ILS and how this has led to the development of the ILS concept.

The delegate will understand the relationship of this ILS Concept to the "ILS Elements" and hence gain an appreciation of the scope of ILS.

The reasons for, and the nature of, the relationship between ILS and concepts of the "Total System", Systems Engineering and Logistic Support Analysis, [LSA], are explored. This leads to an understanding of the magnitude and difficulties inherent in both the technical and managerial ILS tasks.

The course will raise corporate awareness of ILS whilst dispelling many common misconceptions and enhance personal effectiveness when working in or interfacing with an ILS organisation.

The course will aid the delegate to consolidate past knowledge and experience and it will provide a sound framework for future development.

The Training Process

The course develops a logical argument which begins with the customers need for a cost effective system. i.e. we define WHY we do ILS. The argument culminates in a comprehensive definition of ILS.

The scope of ILS is defined by the ILS elements and the ILS elements are addressed briefly from both a technical and programme management point of view.

The issues of programme integration from a technical and project point of view are addressed. This leads to a discussion of LSA and the need for Systems Engineering.

The course finishes with a discussion of the major issues relevant to the management of an ILS programme, for example the need to tailor.

The course material is memorable and will aid future understanding and critical interpretation of ILS standards and procedures.

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Course Programme

Day 01 - AM

001-T **Supportability Engineering & ILS - An Overview**

The module starts with a very quick introduction or recap of Integrated Logistic Support (ILS) that answers the Why, What, When, Where, Who, and How questions about Support Management.

The need for Integrated Support Solutions is identified by describing the problems and potential problems that must be rectified or avoided in the future. The module develops a logical argument through an analysis of these problems that leads to the identification of the support elements, the ILS Aims and the underlying Philosophy of ILS. Followed by a discussion on the analytical techniques that are required in order to optimise the Total System design, i.e. the requirement for Logistic Support Analysis (LSA).

026-P **The System Life Cycle including the UK MOD Smart Procurement Cycle**

This module gives a brief introduction to the UK MoD Dossier process and to the individual sections of the Dossier. The products and aims of the ILS process are related to the contents of the individual sections of the Dossier where appropriate.

011-T **Quantifying the System - A Briefing**

This module provides an introduction to the basic measures of Logistics and their place within Support related analyses.

The aims are to raise the delegate's level of awareness of the measures whilst providing an introduction to their statistical basis, and to ensure that they have a grasp of the concepts that are a pre-requisite to an understanding of Support requirements.

Day 01 - PM

002-T **An Introduction to Systems and Systems Engineering**

The concept of Systems Engineering is introduced, and Support Requirements are defined in the context of the Systems Engineering process.

The aims of the Systems Engineering process are defined. This leads to an expansion of the need for and the role of Logistic Support Analysis (LSA). The aims of LSA and its place in the Systems Engineering process are explored.

The "Generic Systems Engineering" process is introduced and related to the concept of system Life Cycle Phases as a mechanism for controlling a major system development programme and for managing risk. The concept of Life Cycle phases is related to the UK MoD acquisition process and the acquisition phases are defined in terms of their aims processes and products.

003-T **The Logistic Support Analysis (LSA) Process - A Short Introduction**

An introduction to the Logistic Support Analysis (LSA) process. The need for LSA is discussed then the LSA tasks and the LSAR as defined by Def. Stan. 00-60 and MIL-STD-1388-1A are introduced.

The tasks are discussed in the context of the System Engineering process.

025-S **The Management of Integrated Logistic Support (ILS) - An Overview**

The basic ILS management issues are explored in this module and related to the Systems Engineering process.

The management requirements are identified and the process of developing an ILS strategy and then developing the detailed ILS plan, is explored.

The module addresses the requirement for tailoring, integrated plan sets, scheduling, monitoring and control of an ILS programme and ILS costing. The content of the contractors Integrated Support Plan (ISP) is addressed in detail.

The relationship of ILS to Continuous Acquisition and Lifecycle Support (CALs), Total Quality Management (TQM) and Continuous Quality Improvement (CQI) are addressed.