

CASE STUDY

IDEFO

Xpedit was contracted by BAE to conduct a detailed functional analysis on the DREADNOUGHT Class submarine, producing documentation that will facilitate the generation of functional partitioning and the RCM study analyses data.

The Project

The functional analysis was conducted using the IDEF0 process. This produced a hierarchical Functional Breakdown, along with a diagrammatic representation of HMS DREADNOUGHT's functions and their interdependencies. In addition to this, Xpedit included a brief description for each suggested RCM analysis.

The functional analysis and supporting documents were produced and reviewed using the relevant system design descriptions, functional design descriptions, and technical drawings, in accordance with BS ISO/IEC/IEEE 31320-1:2012, BR 1313A and Defence Standard 00-45. Effective project management and the drawing on lessons learnt ensured the delivery of a comprehensive IDEF0 Functional Model.

Xpedit's Approach

Xpedit is a MoD approved supplier of IDEF0 Functional Analysis consultancy and facilitation. Xpedit were selected due to our specialist knowledge in the IDEF0 process, submarine SQEP (Suitably Qualified and Experienced Personnel) and long-term relationship with the MoD.

Outcome

Tasking has also been extended to maintain the IDEF0 Functional Model through life and to help facilitate HMS DREADNOUGHT's RCM analyses under contract with BAE.

About IDEF0

IDEF0 is a method designed to model the decisions, actions, and activities of an organization or system. The United States Air Force commissioned the developers of the Structured Analysis and Design Technique (SADT) to develop a function modelling method for analysing and communicating the functions of a system.

Effective IDEF0 models help to organise the analysis of a system and promote good communication between the analyst and the customer. IDEF0 is useful in establishing the scope of an analysis, especially a functional analysis.

As a communication tool, IDEF0 enhances involvement from all stakeholders and streamlines decision-making through simplified graphical representations.

As an analysis tool, IDEF0 assists the modeller in identifying what functions are performed, what is needed to perform those functions, what the current system does right, and what the current system does wrong.

Our Services

Reliability Centred Maintenance | Integrated Logistic Support | Asset & Maintenance Management | Project Management | Safety Cases and Risk Assessing | IDEF0 Functional Analysis | Availability, Reliability and Maintainability Based Maintenance | RCM Mentoring and Training

Contact Us

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