

Case Study

QUEEN ELIZABETH CLASS RCM

Xpedite was awarded the contract to support the activities of the Ministry of Defence (MoD) and within the Queen Elizabeth Class (QEC) RCM projects.

The QEC aircraft carriers, HMS QUEEN ELIZABETH and HMS PRINCE OF WALES, are the largest warships ever built for the Royal Navy and are each capable of carrying up to 40 aircraft. The carriers will ensure Britain's interests are protected throughout the world, and HMS QUEEN ELIZABETH is expected to remain the Royal Navy's flagship for decades to come.

The Project

The project utilised the approach of Reliability Centred Maintenance (RCM) to dictate platform maintenance requirements that are safe, auditable and cost effective throughout the life of the vessel. Working to MoD standards defined in Defence Standard 00-45, Xpedite helped define a sound and effective maintenance strategy to effectively manage the assets on board the QEC aircraft carriers for all platform, mission and government furnished equipment.

Xpedite were further contracted to provide RCM support to the customer, consisting of contract facilitation of various equipment, as well as ongoing RCM mentoring and training. Our experience, drawn from having already provided a 'whole ship' RCM solution for the ASTUTE Class Submarines amongst other projects, ensured successful delivery of an RCM solution that was viable, defensible and met the demands of the customer.

Throughout the project, Xpedite's tasking also extended to help manage the Integrated UMMS (Unit Maintenance Management System) Environment (IUE). The through life activities include data management, writing of Job Information Cards (JICs) and the grouping and scheduling of maintenance within UMMS.

Moving forward, Xpedite are contracted to offer continued support to the QUEEN ELIZABETH Class in the form of maintenance and asset management and are at the forefront of developing effective maintenance solutions for HMS PRINCE OF WALES. Xpedite are through-life MMS managers.

There is a pressure to meet ever increasing safety expectations, environmental legislation and financial objectives. A significant part of any evaluation strategy can be to review the maintenance requirements for assets, systems or entire organisations.

There are many processes available within industry to facilitate such a review. The key is to find a process that meets an organisation's needs. Reliability Centred Maintenance (RCM) is one such process that can be used to analyse assets and systems. The result is a proactive, safe, cost effective and defensible maintenance strategy with a robust auditable trail that can prove extremely beneficial through-life when incorporated within a Maintenance Management System (MMS). The efficient derivation and management of maintenance could improve machine performance through best practice and maximise machinery efficiency.

Xpedite employs its core service of RCM to generate viable proactive maintenance strategies. Customers are then supported through life by offering innovative and valued solutions to manage maintenance, logistical and other supportability issues.

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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