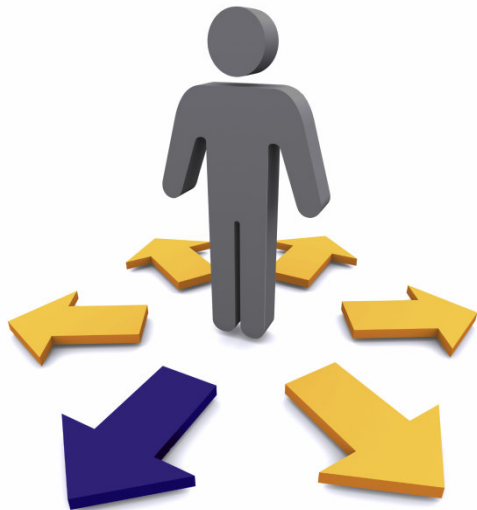


Maintenance Manpower Forecast Modelling

The Client:

“BAE Systems is the premier global defence and aerospace company”

A global leader in the provision of military capabilities and systems. BAE Systems are bringing supply chain tools and techniques to the UK Government and Armed Forces



The Problem:

Our Client had been tasked by the MoD with providing a fixed price for the provision of on-base, off-aircraft maintenance industry manpower for a 5 year period, for a new platform. The industry manpower should supplement the capacity provided by current and future RAF manning levels. The task hour loading on the maintenance areas needed to be established, including indirect tasks, i.e. not directly attributable to maintenance or repair of assets. Stakeholder engagement was a key requirement, involving BAE Systems, RAF and MoD

The results:

We created a dynamic modelling template that predicted the forecast industry manpower requirement over the required 5 year horizon, building up from each individual bay, through the RAF trade and summarised by main operating base. The model also allowed the RAF and MoD to change key parameters, such as utilisation rates, and understand the effect of these changes on current and forecast manpower requirements. The model has become a live document and has become the tool used to manage the ongoing manpower forecasting for the off-aircraft maintenance bays. The model is now also being refined to be used across other areas of the operation for manpower forecasting.

Our approach:

Established future bay capability by MOB. Working closely with BAE Systems modelling team, we established the forecast arisings for each by and Main operating base. Established task hour profile for each asset or maintenance process. Worked closely with the Officers and SNCO's in each bay to determine the indirect task loading and any other factors that influence man-hour requirements. Developed a modelling template to calculate the total required task hours per year per bay. Determined the annual hours, utilisation rates and forecast RAF manpower availability in conjunction with the RAF and MoD.