Asset health check

An asset health check identifies the key issues for the ongoing operation of the asset. It gives a complete view of the plant by looking at equipment, systems, procedures and competencies to ensure the integrity of the asset.

Operating an asset efficiently and profitably is becoming more and more difficult due to:

- Ageing assets bringing a host of possible problems and equipment failures
- Regulatory requirements becoming more demanding
- An ageing workforce causing a skills shortage
- More intense cost pressures as companies push to get the most out of their asset and team

What we offer
ABB can provide an overall evaluation of asset integrity benchmarked against best in the industry and provide you with a focused view of any further work or expenditure that may be required to improve asset performance and reliability. This may be driven by an incident that has caused a loss of confidence in an asset, a wish to evaluate assets against best practice or the need to extend the life of an asset.

The independent study will assess the status of the asset’s integrity, management practices and procedures and competency of staff. The study is tailored to meet specific requirements; it can be focused on an entire production site or on a class of equipment such as boilers or rotating machines.

A typical study requires 2-3 days on site with the production organisation and all work is carried out whilst the plant is online. The study is normally completed in four weeks.

ABB’s team of specialists will begin by assessing the condition of the plant against world class standards and review compliance with legislation to give an understanding of where you are now. A risk based approach is then implemented to allow focus on vulnerable areas and groups of equipment to ensure that opportunities for improvement are sought out and ‘quick wins’ identified.

The study produces a detailed evaluation giving overall scores for elements such as state of assets, spare parts management and inspection management, along with key strengths and areas for improvement. From this ABB can work with the client to generate solutions and actions plans for the necessary changes to be implemented.

ABB can then project manage this implementation and where appropriate complete some of the actions by calling upon our broad range of services.

The asset health check follows ABB’s pRIME philosophy. pRIME (process Reliability and Integrity Management Excellence) is about the asset and integrity management improvement journey.
The process identifies the symptoms, diagnoses the issues, and implements improvement / treatment.

The pRIME approach is a consultancy programme supported by tried, tested, consistent and coherent methodologies and capability. Following pRIME delivers a beneficial, cost effective sustainable solution. All processes are risk based, ensuring that effort is concentrated on areas that will give the highest return.

This approach is supported by a coherent set of IT tools (pRIME Toolkit), which provide a consistent and efficient approach.

**Benefits**

- Lowered risk of business disruption as the comprehensive report will highlight future issues or possible areas of failure allowing for action to be taken before they disrupt the business
- The health check provides an improved knowledge and understanding of the asset and supporting management practices
- Aid in future planning and budgeting. The report quickly shows the condition of the asset and where any improvements or expenditure are required

**Why ABB?**

Our team of experienced specialist technical consultants with operational heritage will use their experience to make pragmatic technical judgements and offer solutions that are cost effective.

ABB can not only provide the asset health check report but the entire solution. We can assist in implementing the recommended improvements to ensure complete confidence in the asset.

In recent years ABB have conducted numerous asset health studies and 30+ single function studies across a range of industries including oil and gas, chemical, pharmaceutical and energy.