

## **Introduction**

**Modern manufacturing and process plants can maximise profits by adopting proven and successful industrial asset management practices and methods.** Maximum benefits are gained when the right practices and methods are used from the concept development right through design, installation, operation and finally the removal of the last evidence of its existence.

Even if the operation is already well established future profits can be vastly improved by introducing the correct practices, methods and systems now.

There is a known and proven set of methodologies and practices, that if adopted, will generate large additional profits normally lost through waste, inefficiency and equipment failures. These practices and methods are well established, with proven track records of delivering added profits to business bottom lines.

**In this book you will learn of the best industrial asset management practices to adopt.** It shows you the stage in the life of the operation to adopt them to gain their maximum benefit. Even if your operation is now established, these proven practices can still be used to rapidly improve the business and its performance.

### **Low Cost Production By Design.**

Making low-cost quality production is now much more science than art. What makes manufacturing, utilities, mining and process based businesses successful is now well understood. Success can almost certainly be delivered. Businesses can definitely get low cost, quality production by using the proper methods and systems at the right times throughout their commercial life.

**With outstanding production plant reliability and availability you have a known and sure means of meeting customers requirements at the lowest possible production costs.** Adopting and applying successful business systems and methods at the right point in a facility's design and operating life assure the equipment reliability and plant availability. This translates into guaranteed permanent low costs, market place competitiveness and continually better profits.

This book summarises the methods and systems to use. It presents the stage in a production facility's life to use them. If you use them correctly you will get outstanding plant and equipment reliability. With high production reliability, high product quality and high plant availability assured it is possible to secure customers with commitments of supply at prices that competitors cannot match.

## **Overview Of Practices, Methods, Systems And Measures.**

The simplest and quickest way to present you with the practices, methods and systems to use that deliver outstanding production equipment reliability is to put them all on a chart. The overview chart on the next page shows you the techniques to apply and when to apply them during a business' lifetime.

### **Overview Chart Explained**

On the left-hand side are listed the measures you use to gauge and manage the business. To the right of the measures are the techniques and practices that produce compliance to the best safety, health and environmental (SHE) practices. Further to the right is a simplified life-cycle of a manufacturing or production business facility. The life cycle of a facility starts with the concept and financial justification, through its designing, commissioning and operation, and finally its de-commissioning. On the far right-hand side are the methods, practices and systems that reduce business risks and deliver outstanding equipment reliability and plant availability.

Equipment reliability and maintenance are business risk management functions. The 'tool kit' of methodologies and practices presented in this book are used to either spot, prevent or control the many risks that businesses face daily.

Use the chart to select the best management practices and methods to apply at the right point in the facilities design phase and operating life.

### **A Glossary Of Terms**

The Glossary contains short and simple explanations of the methods and practices listed in the chart. You can find more information on any of the practices through additional research and reading in industry magazines or the Internet.