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The product life cycle. Figure 2 depicts the main stages of a product's life cycle; energy, transportation, and waste management are relevant throughout the life cycle. Raw material acquisition. This stage includes the removal of raw materials and energy sources from the earth, such as the harvesting of trees or the extraction of crude oil.

Effective chemical life cycle management is centered on expiration dates, which must be noted when chemicals arrive at the lab and tracked until they are removed. Chemical inventory management should be relatively easy since materials arrive in approved, labeled containers supported by paperwork.

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An industry life cycle typically consists of five stages — startup, growth, shakeout, maturity, and decline. These stages can last for different amounts of time, some can be months or years.

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The safety tasks during the operation phase of the safety life cycle include operating safely, testing and inspection, maintenance, continued training, and safe modification and decommissioning.

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Safety throughout the product life cycle Managing safety throughout the life cycle of our products is a key aspect for Repsol. Safety is present in the design and supply stage, right up until the time we make our product available to customers on the market.

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Essentially, the standards give the framework and direction for the application of the overall safety life cycle (SLC), covering all aspects of safety, including conception, design, implementation, installation, commissioning, validation, maintenance, and decommissioning.

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In a nutshell, the process safety lifecycle describes a safety instrumented system's (SIS) life and the activities around it from conception through retirement. IEC defines the lifecycle using a flow chart within the 61511 standard (Ref figure below). ISA 84 effectively mirrors the IEC standard.

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6. Life cycle safety management. A product's life cycle ranges from the time the product is conceived until it is finally disposed (Hammer, 1993). The length of the life cycle depends on the type of product, and may vary from very short (e.g., high-tech gadgets) to very long (e.g., heavy industrial

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The safety life cycle can be divided into three stages: analysis, design/realization, and operation and maintenance. Normally, the SSI's main role is in design/realization. The SSI will finish detailed design and implementation based on the safety requirements specification provided by users.

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