API Standard 18LCM

Product Life Cycle Management System Requirements for the Petroleum and Natural Gas Industries.

API 18LCM covers
the management
system requirements
for service providers
performing life cycle
management of

products.

Service providers can include OEMs, service companies, operators, drilling contractors, etc.

The service provider shall establish, implement and maintain a QMS conforming to API Q2 without exclusions.



18LCM focuses on determination of product life cycle management status, the actions required to maintain a status and development of the life cycle management plan.



18LCM defines requirements for three life cycle management statuses: LCM-1, LCM-2 and LCM-3.



For a given life cycle management status (LCM-1, LCM-2 or LCM-3), requirements surrounding the elements vary with increasing levels of traceability and control.

KEY LIFE CYCLE MANAGEMENT STATUSES

- Product Identification legible and permanently identified managed product
- Production Definition established and documented by the service provider
- Manufacturing Records maintained for the product from the time product is placed into the life cycle management program until the product is decommissioned
- Traceability managed for product in accordance with the industry product specification or the product definition

- Usage History maintained on product from the time product is placed into the life cycle management program until the product is decommissioned
- Repair and Maintenance History maintained on product from the time product is placed into the life cycle management program until the product is decommissioned
- Product Conformance (LCM-3 only) managed for product to the applicable API product specification in effect at the time of original manufacture. The manufacturer's QMS shall have been in conformance with API Q1 at the time of product manufacture. The manufacturer's QMS shall have been certified by a certification body at the time of product manufacture





TO MEET 18LCM REQUIREMENTS, A **SERVICE PROVIDER MUST DEVELOP A LIFE CYCLE MANAGEMENT PLAN (LCMP)**

- · Service provider is responsible for developing, documenting, maintaining and executing the LCMP
- The LCMP is a service quality plan and must meet the applicable API Q2 service quality plan requirements

- Additionally, the LCMP must address:
 - · Description of the managed product
 - · Identification, marking and traceability
 - · Repair and maintenance
 - · Installation, physical arrangement and service environment
 - Recording of usage history
 - · Preservation of product
 - Decommissioning

API 18LCM is one of the API Standards for which API Registration or Licensing is available from the API Monogram/APIQR Program.

Other available certifications include:



API Monogram Program licensing for organizations that manufacture products



API Q1 Registration for organizations that provide products for the oil and natural gas **Industry**



API Q2 Registration for service supply organizations



HOW TO OBTAIN AN 18LCM REGISTRATION FROM THE API MONOGRAM/APIQR PROGRAM

- Organization must submit an application through myCerts (myCerts.api.org)
- Audit will be conducted by API auditor(s) against API 18LCM and API Q2 requirements. Note: Stage 1 & Stage 2 audits required for applicants
- · API determines that audit results show the organization meets program requirements
- · API issues a registration certificate and mark
- Annual surveillance audits are required after API 18LCM Registration has been granted