

# Understanding ISO/TS 29001:2010

**Petroleum, Petrochemical  
and Natural Gas Industries**

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## WHAT IS ISO/TS 29001?

- ISO/TS 29001 defines the quality management system requirements for the design, development, production, installation and service of products for the petroleum, petrochemical and natural gas industries.
- Developed as a direct result of a partnership between ISO and the international oil and gas industry (led by the American Petroleum Institute - API), ISO 29001 specifically focuses on the oil and gas supply chain.
- This standard is for all organizations working within the oil and gas industry supply chain. Certification to ISO/TS 29001 ensures standardization and improvement within the sector.



- The ISO/TS 29001 standard is based on ISO 9001 and incorporates supplementary requirements emphasising defect prevention and the reduction of variation and waste from service providers.
- These requirements have been developed separately to ensure that they are clear and auditable. They also provide global consistency and improved assurance in the supply quality of goods and services from providers. This is particularly important when the failure of goods or services have severe ramifications for the companies and industries involved.



## Benefits of ISO/TS 29001:2010 Petroleum, Petrochemical and Natural Gas Industries

Benefits from a proactive approach to a compliant ISO/TS 29001 include:

- Gaining of licence to trade to increase contracts and prospects
- Demonstrating to stakeholders the commitment to industry best practice
- Improving risk management and performance
- Streamlining operations to improve quality and reduce waste
- Enhancing communication and periodic assessments for continual improvement
- Validating conformity of the Management System in accordance with the new legal requirements
- Inspiring consumers' confidence
- Increasing operational efficiencies and competitive market appeal

## We partner with your organization to achieve ISO/TS 29001:2010 certification:

The quality management professionals at Lakshy have considerable experience helping our clients to design and implement ISO/TS 29001:2010. Lakshy is committed to partner with you on your path to success and has comprehensive services that are aimed at helping the organization achieve the ISO/TS 29001:2010 Petroleum, Petrochemical and Natural Gas Industries certification.

We enable organizations to align themselves for certification by:

- Conducting an initial gap analysis
- Helping you establish policies and objectives.
- Identifying documentation requirements
- Coordinating document preparation, reviews, approvals, and issuance.
- Managing implementation schedules, trainings and follow-up actions

## In addition to consulting (onsite and online), we provide the following trainings:

- ISO/TS 29001:2010 Overview Training
- ISO/TS 29001:2010 Training
- ISO/TS 29001:2010 Internal Auditor training
- ISO/TS 29001:2010 Implementation training

## Documentation Requirements Of ISO/TS 29001:2010 Petroleum, Petrochemical And Natural Gas Industries

The following are the documents required for **ISO/TS 29001:2010**

- Conformity matrix of QMS documents v ISO/TS 29001 requirements
- Master list of documents and records in the management system and their status
- Identification of Roles, Responsibilities and Accountability
- Records of customer notifications of nonconforming product
- Training need identification of personnel (including contract and agency personnel)
- Quality plan or inspection and test plans
- Review of Production Requirements (additional to records of review)
- Planning for design and development
- Design methods, assumptions, formulas and calculations
- Supplier Evaluation and Supplier registration
- Inspection and test plans for incoming product
- Production process controls (in routers/travelers or similar)
- Identification and traceability
- Product status
- Customers' property
- Preservation of conformity of products and constituents
- Measuring and calibration of equipment
- Process changes
- Procedure for accepting nonconforming product
- Procedure for dealing with field nonconformities
- Procedure of nonconforming product

## Documentation

ISO 29001 requires different types of documentation as illustrated in the documentation pyramid below.

## Documentation Requirements Of ISO/TS 29001:2010 Petroleum, Petrochemical And Natural Gas Industries

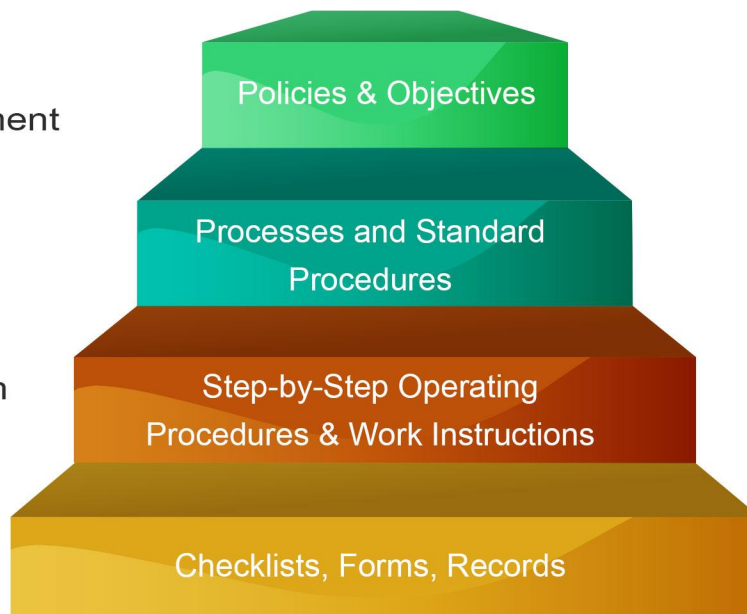
### Examples

Quality Manual  
Quality Policy Statement

Processes, e.g., train  
personnel

Sample testing &  
Equipment Calibration  
Step-by-Step

Maintenance Test  
& Training Records



- A policy documents the intent and goal of the organisation to conform to ISO 29001 Requirements.
- Quality manual describes the approaches to achieve quality data. It includes quality policy.
- A process describes how various quality requirements can be achieved.
- Standard operating procedures or working procedures are step by step instructions on how to exactly perform a specific task.
- Records are generated on day by day basis.
- All records should be well controlled.

## Which companies can apply for ISO/ TS 29001?

ISO/TS 29001:2010 is the result of a cooperative effort between the American Petroleum Institute (API) and ISO technical committee ISO/TC 67, Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries. The ISO/TS 29001, which is also published as API Q1, provides a single QMS document to meet the needs of the oil and gas industries worldwide, and specifically the major petroleum, petrochemical and natural gas organizations, as well as government and regulatory agencies. It qualifies the QMS of equipment manufacturers and service suppliers. Potential end users include the following:

## Documentation

natural gas organizations, as well as government and regulatory agencies. It qualifies the QMS of equipment manufacturers and service suppliers. Potential end users include the following:

- Organizations involved in exploration, production, pipelines and transportation, and refining of petroleum and natural gas products
- Organizations involved in the design, manufacture, installation, service and repair of equipment used in the exploration, production, transportation and refining of petroleum and natural gas products
- Organizations that provide technical, operational and support services to the various industry sectors identified above

## Steps To Establishing An Effective ISO/TS 29001:2010 Petroleum, Petrochemical and Natural Gas Industries:

1. Awareness Training: Session for Top, Middle and Junior level management.
2. Quality Policy and objectives: Workshops with Top and Middle management on quality policy objectives.
3. Gap Analysis: Comparing existing operating system with requirement of ISO 29001 standard.
4. Documentation process Design and Implementation: Create a manual containing operation procedures, operation control plans, work instructions, legal register, quality training, purchase and marketing. Conduct workshop on process implementation as per ISO specific standard.
5. Internal Audit: Training and Examination.
6. Management Review Meeting: Formalized process for top management to review various aspects of the organization.
7. Pre-assessment audit: To create awareness for employees about the Final Certification audit process.
8. Corrective- Preventive actions (CAPA): All non-conformities identified in the Pre-assessment audit to be reviewed. Corrective and Preventive actions to be identified and implemented.
9. Final Certification audit & Award of certification: Selection of a certification body to conduct the final audit.

With a team of highly skilled, qualified and motivated consultants and trainers having vast industrial experience, we partner with organizations across the world to implement and achieve ISO/TS 29001:2010 Petroleum, Petrochemical and Natural Gas Industries.

Our consulting approach is highly professional, time bound and effective, resulting in ease of implementation, and adds value to the business processes of the client organization

**Contact us at [info@iso-consultants.com](mailto:info@iso-consultants.com) to get your organization ISO/TS 29001:2010 Petroleum, Petrochemical and Natural Gas Industries Accredited.**