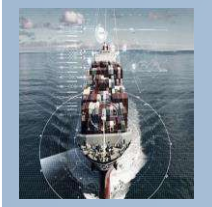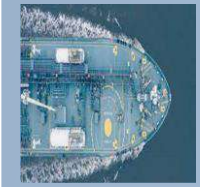# Deming Certification & Rating Pvt. Ltd.

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ISO 16155:2006 Ships and Marine Technology

What is ISO 16155:2006 Ships and Marine Technology?

Marine technology is defined by WEGEMT (a European association of 40 universities in 17 countries) as "technologies for the safe use, exploitation, protection of, and intervention in, the marine environment." In this regard, according to WEGEMT, the technologies involved in marine technology are the following: naval architecture, marine engineering, ship design, ship building and ship operations; oil and gas exploration, exploitation, and production; hydrodynamics, navigation, sea surface and sub-surface support, underwater technology and engineering; marine resources (including both renewable and non-renewable marine resources); transport logistics and economics; inland, coastal, short sea and deep sea shipping; protection of the marine environment; leisure and safety

Education and training

According to the Cape Fear Community College of Wilmington, North Carolina, the curriculum for a marine technology program provides practical skills and academic background that are essential in succeeding in the area of marine scientific support. Through a marine technology program, students aspiring to become marine technologists will become proficient in the knowledge and skills required of scientific support technicians.

The educational preparation includes classroom instructions and practical training aboard ships, such as how to use and maintain electronic navigation devices, physical and chemical measuring instruments, sampling devices, and data acquisition and reduction systems aboard ocean-going and smaller vessels, among other advanced equipment.

As far as marine technician programs are concerned, students learn hands-on to trouble shoot, service and repair four- and two-stroke outboards, stern drive, rigging, fuel & lube systems, electrical including diesel engines.

Relationship to commerce

Marine technology is related to the marine science and technology industry, also known as maritime commerce. The Executive Office of Housing and Economic Development (EOHED) of the government of Massachusetts in the United States defined marine science and technology industry as any business that deals primarily with or relates to the sea. A marine science industry includes businesses and technologies, research facilities, and higher education learning institutions. Companies and businesses involved in marine science and industry produce products such as ropes used for commercial fishing, undersea robotics, and stabilized sensor systems. The marine science industry has five sub-sectors, namely marine instrumentation and equipment, marine services, marine research and education, marine materials and supply, and shipbuilding and design.

Global goals

Marine technology is important for commerce and sustainable development. Therefore, the United Nations Sustainable Development Goal 14 calls for an increase in transfer of marine technology and research capacity to least developed countries (LDCs).

List of International Organization for Standardization standards

This is a list of published International Organization for Standardization (ISO) standards and other deliverables. For a complete and up-to-date list of all the ISO standards, see the ISO catalogue.
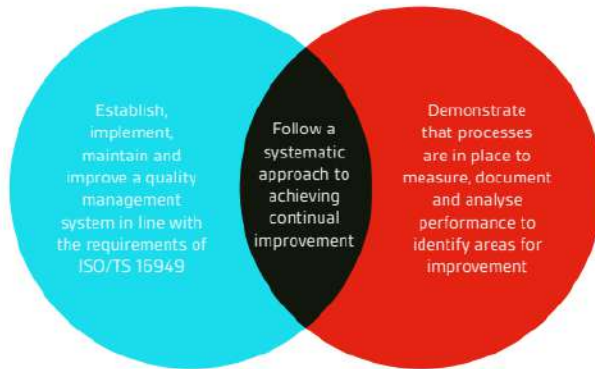
The standards are protected by copyright and most of them must be purchased. However, about 300 of the standards produced by ISO and IEC's Joint Technical Committee 1 (JTC 1) have been made freely and publicly available.

ISO Brand

This is a dynamic list and may never be able to satisfy particular standards for completeness. You can help by adding missing items with reliable sources.

The principal requirements of the standard are illustrated below:

Establish, implement, maintain and improve a quality management system in line with the requirements of ISO/TS 16949

Follow a systematic approach to achieving continual improvement

Demonstrate that processes are in place to measure, document and analyse performance to identify areas for improvement

The next few pages of the guide takes you through the Plan-Do-Check-Act (PDCA) methodology, common in all ISO management systems and how DCS can help and support you on your ISO/TS 16949 journey.
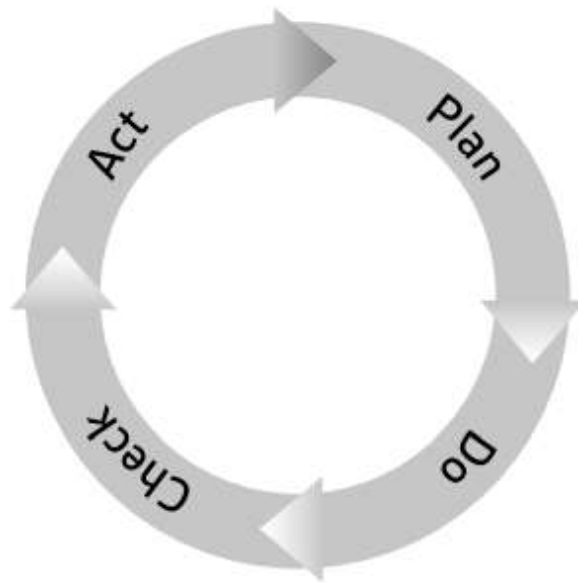
Understanding the principles of continual improvement

Act
Correct and improve your plans to meet and exceed your planned results

Plan
Establish objectives and draft your plans (analyse your organization's current systems, establish overall objectives, set interim targets for review and develop plans to achieve them)

Check
Measure and monitor your actual results against your planned objectives

Do
Implement your plans within a structured management framework