CERTIFICAÇÃO E QUALIDADE EM ELETRÓNICA, AUTOMAÇÃO E COMANDO

Code: 322018

Main Scientific Area: Electronics and Instrumentation

Lecturer: AntÃ³nio Pedro Ferreira da Silva

Language of Instruction: Portuguese

Regime: S1

Contact Hours: 30h Total Workload: 54h

ECTS: 3,0

Objectives

This course aims to provide students with fundamental knowledge of Certification and Quality sets and / or equipment.

The planning, development, and implementation of the Certification Manual,

The methodologies to be implemented starting from an approach of major general and cross-cutting concepts of individualized study of ISO 9001-2015 and associated Standards,

It is intended that students understand the main guidelines on implementation of Quality Systems (ISO 9001-2015), obtain the knowledge necessary to implement the certification manual, the rules by which they are governed, the methodologies to be adopted, the authorities responsible for viewing and monitoring, verification of compliance and implementation of the CE mark.

Whenever possible, the study will be based on case studies of real application-oriented problem solving in design aspects, verification and simulation of non-compliances (CN), using the existing laboratory equipment.

Learning Outcomes

At the end of UC students should be able to:

Analyze, interpret and apply the basic concepts of quality and certification using the legislation,(ISO 9001-2015 and international standards)

Develop work tools, able to implement, manage and monitor processes.

Understand the fundamental mechanisms of the certification processes of a machine / assembly

Implement certification technical manual of a machine / assembly.

Specify and summarize the steps / procedures of a certification manual.

Understand the operation and use testing devices and necessary tests in certification of a machine / assembly.

Checks create a report.

Create a certificate of conformity

Course Contents

The Quality

The Quality Management SystemsISO 9001-2008 ISO vs + 9001-2015Portuguese Standard NP EN ISO 9001 2008The objectives of a quality management system;The its stakeholders;Your Models and Implementation Procedures, Rules, and results;

Certification as a guarantee of the quality of a product.

Defining a set of system;Configurable sets;The standard, which has changed;IEC 60439 to IEC 61439;definitionIEC 61439-1;The Technical Rules;

The Certified Product / Assured Security;

Types of certification requirements for the checks:

conceptsThe process approach.The functions of each actor;The 13 trials with a set based on the standard;

Certificates / Declarations of Conformity:

per set;per sample;

Recommended Bibliography

Principal

Material das sessões de formaçãoISO 9001-2008
ISO 9001-2015 (demo)NP 61439
RTIEBT

Documentos tipo.

APCER Manual de procedimentos ISO 9001-2015

Learning and Teaching Methods

The various matters discussed consist methodologies to adopt when certifying a product.

After the introduction RULES AND REGULATIONS,

the topics will be addressed:

Quality systems and certification

Care in implementing and which entities that oversee.

The implementation models;

Procedures and compliance with the specifications mentioned in the rules;

The tests, Findings, and the assignment EC.

Finally, comes the completion of the final design of the machine devised by forming and carrying out the manual of procedures for the certification of it.

Assessment Methods

Soft skills will be assessed by observation and registration in relevant grid as well as the assessment of cognitive skills through practical work andfinal project interdiciplinar with public defense (25% nf).

Projeto Interdisciplinar Avaliação Contiua / Projeto Individual Classificação final

Frequência Participação Interação Desempenho ISO14001 Ambiental Iso Aplicação das RTIEBT Aplicação das 61439 Medidas de protecção e segurança Ensaios e certificação CE

Apresentação e defesa do projeto final Aulas teóricas aulas práticas Diretiva Máquinas IP IK Dispositivos de corte e segurança. Manual do Utilizador. Manual de Procedimentos.

Manual de Certificação do produto/equipamento Relatorio de Ensaios Declaração de conformidade CE

25% 75% .=(PI*25%)+(AC*75%)

100% 100%

5% 10% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 10% 15%