

| Quality Certificate Proposal | |
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| **Academic year** | 2024/2025 |
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| **Degree** | Master's in Telecommunications and Computer Engineering |
| **Year** | 2nd Year |
| **Curricular Unit** | Gestão de Projetos de Tecnologias de Informação |
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1. Introduction

Our team has embarked on an important journey to provide the quality certification, which represents the international standard for project management guidelines. This certification emphasizes structured, efficient and consistent management practices, ensuring that all projects comply with global best practices.

# Quality Certification Activities

## ISO / IEC 9126-1:2001 – Product Quality Model

1. Functionality: Measure how well the software meets stated needs; evaluate accuracy, interoperability, and compliance.
2. Reliability: Assess maturity, fault tolerance, and recoverability, ensuring software can handle errors and continue to operate.
3. Usability: Evaluate understandability, learnability, and operability for user-friendly experience.
4. Efficiency: Check response times and resource utilization under specific conditions.
5. Maintainability: Examine the ease of modification, including analyzability, changeability, and stability.
6. Portability: Ensure software compatibility across various environments, platforms, or systems.

## ISO / IEC 25041:2012 – SQuaRE Evaluation Guide for Developers, Acquirers, and Independent Evaluators

1. Requirement Completeness: Verify all quality requirements are adequately defined and met.
2. Documentation Consistency: Evaluate whether documentation is comprehensive, detailed, and consistent with requirements.
3. Traceability: Check that each requirement is traceable throughout the development process.
4. Conformity Assessment: Validate that software complies with defined standards and requirements.
5. Risk Management: Review risk assessments and risk mitigation strategies used in development.

## ISO / IEC 25010:2011 – System and Software Quality Models

1. Functional Suitability: Test for appropriateness, accuracy, and functional completeness.
2. Performance Efficiency: Measure efficiency of resources used during operation, including response and processing time.
3. Compatibility: Confirm interoperability and co-existence with other products in a shared environment.
4. Usability: Evaluate accessibility, aesthetic appeal, and learnability.
5. Reliability: Assess resilience to faults, recovery mechanisms, and consistency in performance.
6. Security: Ensure data confidentiality, integrity, and secure authentication.
7. Maintainability: Verify modularity, reusability, and ability to adapt to changes.
8. Portability: Test for ease of installation, configurability, and adaptability across different systems.

## ISO / IEC 15026-2:2011 – Assurance Case

1. Clear Argument Structure: Check if the assurance case presents a logical structure with claims, evidence, and reasoning.
2. Evidence Sufficiency: Assess whether evidence provided is sufficient to support each claim made in the assurance case.
3. Risk Documentation: Review the documented risks and their mitigations to see if they align with requirements.
4. Claim Coverage: Confirm that all key requirements are backed by assurance claims.
5. Independent Review: Ensure the assurance case is reviewed independently for objectivity and thoroughness.
6. Compliance with Standards: Check compliance with regulatory or industry standards that apply to the system or software.

## IEEE Std 730-2014 – Software Quality Assurance Processes

1. Process Definition: Evaluate if quality assurance processes are defined and documented.
2. Compliance Audits: Ensure regular audits are in place to confirm adherence to quality assurance processes.
3. Corrective Actions: Verify that corrective action processes are established and effective.
4. Quality Planning: Assess if quality objectives and goals are clearly outlined in the project plan.
5. Role Clarity: Ensure that roles and responsibilities for quality tasks are well-defined.
6. Continuous Improvement: Review practices for capturing lessons learned and implementing improvements.

## IEEE Std 829-2008 – Test Documentation

1. Test Plan Completeness: Check if the test plan outlines scope, objectives, criteria, and resources.
2. Test Design and Coverage: Assess whether test cases cover all functional and non-functional requirements.
3. Test Case Documentation: Confirm that each test case is documented with input, expected results, and pass/fail criteria.
4. Traceability of Requirements: Ensure traceability between requirements and test cases.
5. Execution Records: Verify records of test executions, including results and observations.
6. Defect Reporting: Review the defect reporting process, ensuring it captures critical information for issue resolution.

## IEEE Std 1061-1998 – Software Quality Metrics Methodology

1. Metric Relevance: Ensure metrics are relevant and aligned with project goals and requirements.
2. Metric Definition: Confirm that each metric is clearly defined with objective criteria.
3. Data Collection: Verify consistency and accuracy of data collected for metrics.
4. Analysis and Reporting: Assess if metric results are analyzed and communicated effectively to stakeholders.
5. Thresholds and Benchmarks: Check if thresholds or benchmarks are set for each metric to gauge quality levels.
6. Continuous Monitoring: Ensure regular monitoring of metrics to track quality over time.

## W3C WCAG 2.0 – Web Content Accessibility Guidelines

1. Perceivable Content: Ensure content is presented in ways that users can perceive, including text alternatives for non-text content.
2. Operable Interface: Verify that all functionality is accessible via keyboard and does not rely solely on mouse interactions.
3. Understandable Information: Check that content and navigation are understandable, using simple language and clear structures.
4. Robust Compatibility: Ensure compatibility with various assistive technologies, browsers, and platforms.
5. Testing with Screen Readers: Conduct tests to verify compatibility with popular screen readers.
6. User Testing for Accessibility: Incorporate feedback from real users with disabilities to ensure usability and accessibility.

# Price List

Please select only one of the quality certification packages listed. If you are interested in selecting multiple packages, kindly notify the proposal team for further guidance.

| **Package** | **Purpose / Area** | **Value** |
| --- | --- | --- |
| ISO/IEC 9126-1:2001 | * Software engineering * Product quality: Part 1: Quality model | 500€ |
| ISO/IEC 25041:2012 | * Systems and software engineering: Systems and software * Quality Requirements and Evaluation (SQuaRE) * Evaluation guide for developers, acquirers and independent evaluators | 500€ |
| ISO/IEC 25010:2011 | * Systems and software engineering * Systems and software Quality Requirements and Evaluation * (SQuaRE): System and software quality models | 500€ |
| ISO/IEC 15026-2:2011 | * Systems and software engineering * Systems and software assurance * Part 2: Assurance case | 500€ |
| IEEE Std 730-2014 | IEEE Standard for Software Quality Assurance Processes | 500€ |
| IEEE Std 829-2008 | IEEE Standard for Software and System Test Documentation | 500€ |
| IEEE Std 1061-1998 | IEEE Standard for a Software Quality Metrics Methodology | 500€ |
| W3C WCAG 2.0 | Web Content Accessibility Guidelines (WCAG) 2.0 | 500€ |