DISCOVER
ISO 9001:2015
THROUGH PRACTICAL EXAMPLES
A STRAIGHTFORWARD WAY TO ADAPT A QMS TO YOUR OWN BUSINESS

CARLOS PEREIRA DA CRUZ
Discover ISO 9001:2015 Through Practical Examples
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A Straightforward Way to Adapt a QMS to Your Own Business

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1. THE REASON FOR THIS BOOK

I believe with greater and greater conviction that the most practical way to understand the implementation of ISO 9001 requires a company to look at the standard as if they have never had a Quality Management System, with no knowledge of previous ISO 9001 versions, and with the least amount of baggage.

Unfortunately, most companies that look at the standard to prepare to meet its requirements have a way of thinking that has been introduced by consultants since the first version, in 1987.

So, let’s try to look at the 2015 version as if we were ignorant.

A person who is ignorant of ISO 9001, in the truest sense of the word:

- doesn’t think of conformity (compliance) – he thinks about performance
- doesn’t think of complying with the standard’s requirements – he thinks of reaching objectives while avoiding constraints and potentially negative situations

Have you worked with ISO 9001 in the past?

Which was your experience: comply with the standard, or improve performance?

While I write these lines, I am preparing to audit a small company that had been certified for seven years, but in 2010, as a result of the economic crisis, decided to let the certification and the company’s quality system expire, because they concluded that the investment didn’t pay off. At this moment,
because a multi-national company (a potential new customer) demands it, the company decided to relaunch the implementation of the quality system and certify it. This audit will serve to take a snapshot of the current situation, and it will be the basis for designing a realistic project to re-implement the Quality Management System.

To prepare an audit, the auditor must know its objective and must prepare a checklist. That’s why I have studied the company documentation in order to prepare the audit. The SME also provided me with a folder that I read with a mixed feeling of curiosity and disappointment, where I found the internal and external audits carried out over the course of eight years. There was not a single note about benchmarks, objectives, or targets – rather, I saw many reports of non-conformities in documents, and more documents, and still more documents.

That is what I see too often: Quality Management Systems with too few or too many documents, but concentrated on listing tasks that people must perform. And people perform their tasks, and companies remain certified, but nothing else happens. No, don’t blame the external auditors. Their client, the registrar (certification body), asks them: “Does the company comply with ISO 9001?” Very rarely do they ask: “Is the system effective? Is it useful? Is the system the driving force of development?”
2. Why is ISO 9001 usually implemented the wrong way?

This book is about how to build a Quality Management System from scratch without looking at ISO 9001; the standard will naturally come afterwards when we show the relationship between sound management practices and ISO 9001 clauses (as you will see in chapters 4 and 22). However, I have to invite the reader for a previous reflection about a definition of ISO 9000:2015, the definition of management system:

A management system is a “set of interrelated or interacting elements of an organization to establish policies and objectives and processes to achieve those objectives.”

Have you ever looked at the definition of management system?

My interpretation is that a management system is not a set of papers, nor is it a list of activities. A management system is action in order to achieve the desired results. First, an organization must define its overall guidelines (policies, though I prefer the word “strategy”). Objectives and targets arise from these guidelines, and the reason for the management system to exist is to transform itself and change the company in order to achieve these objectives and targets in a sustainable way.

Thus, a management system must be seen, above everything, as a tool to achieve a portfolio of objectives and targets aligned with the strategy of the organization. And, that is what is lacking in many management systems. Most of the consultants “were born” for the job in a time when there was an ISO standard about vocabulary: ISO 8402; or, they “were taught” by the good practices of other consultants of that time. With ISO
ISO 9002 (please, grasp your chairs!) the definition of management system was:

“It is the structure, the responsibilities, the procedures, the processes and the resources that an organization needs to implement the quality management in order to achieve the objectives established in the Quality Policy.”

Compare the two definitions – the second one is really pre-historical. It’s no wonder that many quality systems concentrate solely on compliance. As a matter of fact, I learned this through a quote from Napoleon: “To understand someone, you have to understand what the world looked like when they were twenty."

There are no such things as hazards and coincidences.

Management systems produce what was introduced in their DNA at the time they were generated. If what was indoctrinated was exclusively “We want a certification!”, then they will be certified – but don’t wait for anything else, because a system cannot generate something it was not designed for.

The approach of this book intends to demonstrate how to build a Quality Management System focused on producing results, and which can be certified, this certification being a by-product rather than the main objective (without any negative connotation).
3. ALTIX: AN INTRODUCTION TO THE CASE STUDY

Let’s begin by choosing one company to serve as an example. We choose Altix, a company that designs and develops its own shoe models, with its own brands, which they present at international tradeshows. Its clients choose the models, and then order samples to show in their shops or in shops they work with. After that, Altix receives the orders, processes them, and sends them to factories where the production is outsourced.

Altix does not own factories. The orders are dispatched from its warehouse or from the warehouses of the outsourced factories.

Let’s represent Altix as a black box:

![Altix black box](image1.png)

Figure 1: The company Altix as a black box

Why a black box?

That’s a metaphor: a black box because, to begin with, we are not interested in what is done inside Altix in detail. In this first stage, we are only interested in the results generated by Altix.

Altix, like any other company, has two sides: the strategic one and the operational. Let’s focus first on the strategic side.
4. ANALYZING THE ALTIX STRATEGY

The strategic side deals with profound questions, topics well above the day-to-day business:

- What is Altix, and what is its business?
- Why does Altix exist?
- What makes it different? What is its competitive advantage?
- What business objectives does it pursue, and what targets does it want to achieve?
- What is it going to do to achieve them?
- How will it monitor its journey toward the desired future, a place where it will be meeting the targets?

Put yourself in the shoes of the top management team: What do they want for Altix? They want the company to be successful. How do you begin building a successful company?

NOTE: The following numbers at the beginning of the sentences are a sort of GPS you can use later on to relate each sentence with parts of ISO 9001:2015.
1. Choose the right **purpose**, its reason for being. What is Altix’s business? What does it really offer to the market? A company never sells the product or the service that is in its catalogue; it sells the results that those products and services provide to its clients.

*Purpose:* Comfortable footwear for demanding senior customers.

2. Formulate a **strategic orientation** for the company so that it may stand out, so that it may differentiate itself and gain a competitive advantage. What makes it different? In what aspect does it intend to make the difference?

Comfortable footwear, for **demanding senior customers**. Not the traditional older generation customer, but one that is looking for something that is outside the box, with a bolder design, that meets the needs of those who lived through the turbulence and cultural revolution during the 1960s as a young adult, and who cannot stand the boring footwear their parents and grandparents wore when they were the same age. Comfortable footwear for **shops and retail nets** that serve this kind of consumer, and that want exclusivity, small series, quick repositions, and a reliable partner.

3. When formulating a strategic orientation, the Altix top management must identify which **relevant interested parties** and which **relevant requirements** it wants to focus on, which form the basis to build what may be called “the ecosystem where the company operates.”
Altix identified three relevant interested parties:

- **consumers** (Altix does not deal directly with consumers, but it must know them in order to meet their needs and provide value. In the end, the consumer is king.)

- **shops and retail nets** (These are Altix’s customers. The company considered the market segment they work in – medium-high price, their geographic situation, size, and credit insurance – as selection criteria.)

- **outsourced factories** (Despite being providers, Altix decided to consider them as relevant interested parties, because it intends to develop long-term partnerships that are beneficial for both parties. In the past, Altix suffered some troubles because, at the last minute, some outsourced factories decided not to produce because they were already busy with other clients.)

Figure 2: The ecosystem of interested parties around Altix
The red arrows show the product flow – the shoes leave the factories for retail (Altix customers), and then go from the retail to the consumers.

The black arrows (continuous lines) represent information flow – from Altix to the factories, instructions about manufacture, packaging and shipping, and the delivery dates. Altix and the factories also exchange information about delivery planning and the evolution of production and delivery.

The black dotted line shows the flow of information that Altix intends to receive in order to know if its creativity is meeting the taste and preference of the target consumers.

About its target customers (retail outlets), Altix wrote:

- They have credit insurance.
- They cater to the upper-middle class.
- They are medium in size.
- They are prepared to take risks; they do not simply deal with the safety of established brands.
- They look for a way to fight online sales by offering an exclusive and personalized product.

Then, it built the following scheme to characterize what makes these target customers happy:
Analyzing the Altix strategy

4 Considering the purpose and the strategic orientation of Altix, its top management team, still thinking at the black box level, at the strategic level, established a set of objectives for its business that were aligned with the defined strategic orientation.

Altix, a year before thinking about the implementation of a Quality Management System, had already developed a balanced scorecard for its business; therefore, it decided to use the indicators of the balanced scorecard as its quality objectives, the most important objectives for its business.
For example, in the Process perspective, the strategic objectives were defined as:

P1.1 Conversion rate of proposals to new customers (target of 27% conversion rate)

P1.2 Compliance rate of “New Customers Plan” (target of at least 85% of the plan completed)
<table>
<thead>
<tr>
<th></th>
<th>Compliance rate of “Marketing Plan” (target of at least 85% of the plan completed)</th>
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<tbody>
<tr>
<td></td>
<td>Compliance rate of “Collection Design Plan” (target of at least 95% of the plan completed)</td>
</tr>
<tr>
<td></td>
<td>Success rate of the collection: Quantities? Replacements? Average price? Margin? (target of at least an increase of 10% in the number of pairs)</td>
</tr>
<tr>
<td></td>
<td>Compliance rate of collection dates (target of at least 95% of the collections sent to tradeshows)</td>
</tr>
<tr>
<td></td>
<td>Number of incidents with collection (target of no more than 1 incident per collection)</td>
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<td></td>
<td>Client complaint rate (target of no more than 5 complaints per season)</td>
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<tr>
<td></td>
<td>Internally detected errors rate (target of no more than 3% of production errors)</td>
</tr>
<tr>
<td></td>
<td>Compliance rate of delivery dates (target of at least 80% of the agreed delivery dates)</td>
</tr>
<tr>
<td></td>
<td>Hourly efficiency (target of at least X pairs per person, per hour)</td>
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<tr>
<td></td>
<td>Compliance rate of delivery dates (target of at least 95% of the agreed delivery dates)</td>
</tr>
<tr>
<td></td>
<td>Rate of complaints about suppliers (target of no more than 2 complaints per season)</td>
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Altix does not work in vacuum, far away from reality. It is immersed in reality, working in a specific internal and external context that has influence on its capacity and potential. This demands answers to two questions:

Are there **external factors** that are relevant for Altix’s competitive environment, which will help or hurt efforts to achieve its objectives? And, are there **internal factors** that may also be relevant to the achievement of those objectives?

At the time when the balanced scorecard was being constructed, Altix created a SWOT Analysis with the main internal and external factors that create and shape the context where Altix operates. The company decided to update the SWOT Analysis in order to keep up with an evolving context.
(This part of the book is not displayed in the free preview)
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Discover ISO 9001:2015 Through Practical Examples

A Straightforward Way to Adapt a QMS to Your Own Business

Author and experienced quality management consultant Carlos Pereira da Cruz has written this book with one goal in mind: to offer you a practical and straightforward way to adapt your Quality Management System to your business, while meeting the requirements of ISO 9001:2015. Without struggle, stress, or headaches.

Inside, you will learn:

✓ A straightforward way to adapt your QMS to your own business
✓ More than 50 case studies, charts, diagrams, and tables to help you develop your own QMS
✓ What procedures to put in place to operate your QMS
✓ The roles and competencies of the people involved in the process
✓ The risks you may face and how to deal with them
✓ How to monitor and improve your QMS
✓ How a practical approach to your QMS can help meet the requirements of ISO 9001:2015 without effort
✓ All this, and much more . . .

Written in plain English, Discover ISO 9001:2015 Through Practical Examples will help you understand the relationship between your regular business operations and ISO 9001:2015, instead of implementing the standard purely to prove compliance.