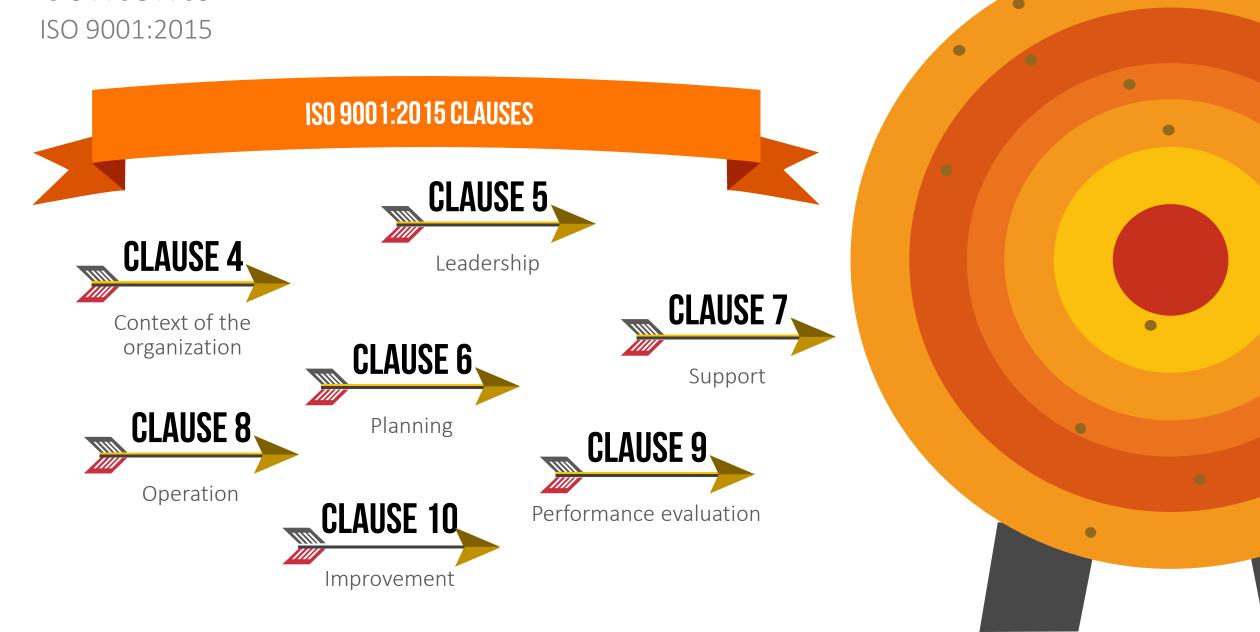






Contents



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THERE ARE ALL THE AREAS RELATING TO THE "PEOPLE, PLACE AND PROCEDURAL" ASPECTS OF THE MANAGEMENT SYSTEMS.

Requirements



7.1 Resources





The main intention behind this general requirement is that the people working within the quality management system are **competent** to fulfil their duties supported by equipment and infrastructure that is fit for purpose.

7.1 Resources





There must be adequate provision of **infrastructure** such as buildings, equipment, IT systems, transport, etc.

7.1 Resources



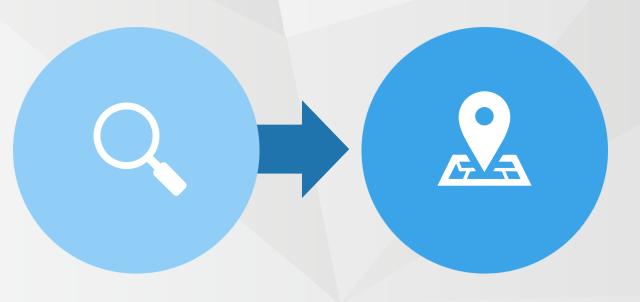


Determining what is needed and what maintenance program should be developed to ensure its continuing capability is part of planning.

Resources

The work environment of an organization has many human and physical factors that can influence quality, effectiveness and efficiency.

These **factors** need to be identified and managed and can include: protective equipment, ergonomics, heat, noise, light, hygiene, humidity, vibration, temperature etc.



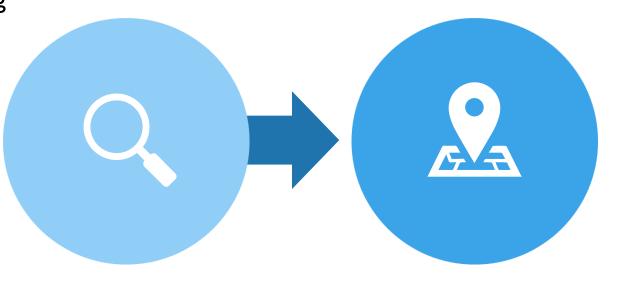
Work environment criteria are often found in procedures, contracts, specifications and codes of practice.

Evidence of compliance should be available via retained documented information.

Resources

The organization must determine what monitoring and measuring has to be undertaken and provide evidence that it was undertaken using correct and reliable equipment.

Regular calibration and maintenance (and retained documented information) is one way to provide confidence that results are reliable.



Critical measuring
equipment must be
available and in a known
state of accuracy to
provide assurance and
evidence that products
meet their relevant
requirements.

This also includes software.

Competence



In order to determine competence, competence criteria need to be established for each function affecting quality. This can then be used to assess existing competence and determine future needs.



Where criteria are not met, some action is required to fill the gap.

Training or reassignment may even be necessary.



Retained documented information is required to be able to demonstrate competence. Recruitment and induction programs, training plans, skills tests and staff appraisals often provide evidence of competence and their assessment.



Competency requirements are often included in recruitment notices and **job descriptions**.

Awareness



Personnel need to be made aware of the relevance of their activities and how they contribute to achievement of the quality objectives and the effectiveness of the management system and resulting organizational performance.



Induction programs and staff reviews are often used for this purpose.

Communication











ISO 9001:2015 brings a clear emphasis on the importance of both internal and external communications.

The clause emphasizes the need to plan and implement a process for communications along the familiar 'who, what, when, how' principles.

communication is essential for a management system. Top management need to ensure that mechanisms are in place to facilitate this.

It should be recognized that communication is two-way and will not only need to cover what is required, but also what was achieved.

Mechanisms for communication could include: meetings, notice boards, in-house publications, awareness raising seminars, toolbox talks, intranet, email, etc.

Documented information



The term "documented information" now replaces the previously used terms "documented procedure" and "records".



Standard does specify on a number of occasions the need to maintain or retain documented information, in order to give structure, clarity and evidence of the system being maintained and effective.



Documented information can be in any format as long as it provide appropriate evidence to demonstrate compliance, and such documented information does not mean there has to be a procedure for everything.



Organizations still need to look at where documented information (e.g. processes, procedures, data, records) is **critical for the management systems** and its effective operation.



CHANGING VALUES – CHANGING WORK STYLES



TRADITIONALIST

- ✓ reliable
- ✓ loyal
- ✓ hard worker
- ✓ constant
- ✓ accepts leadership
- ✓ respects supervisors



BOOMER

- ✓ assertive
- performanceoriented
- ✓ motivated
- ✓ ambitious
- ✓ team-focused
- ✓ client-centric
- ✓ service-driven



GENERATION X

- ✓ self-assured
- ✓ independent
- ✓ technophile
- ✓ flexible



GENERATION Y

- ✓ purpose-seeking
- ✓ optimistic
- ✓ realistic
- ✓ competitive person
- ✓ stubborn
- ✓ multitasking

CHANGING VALUES – CHANGING WORK STYLES



TRADITIONALIST

- avoid
- system conformant
- little willingness to change



BOOMER

- tetchy towards criticism
- impartial
- egocentric
- focused more on processes than results



GENERATION X

- impatient
- skeptic
- lazy
- low level of assertiveness
- cynical



GENERATION Y

- needs guidance
- requires (company) structures
- lacks << personal drive</p>
- disloyal

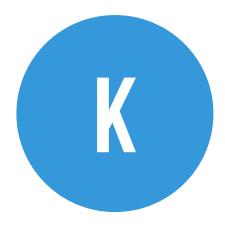
THE ADKAR MODEL



AWARENESS of the need for change



DESIREto support and participate in the change



KNOWLEDGE of how to change



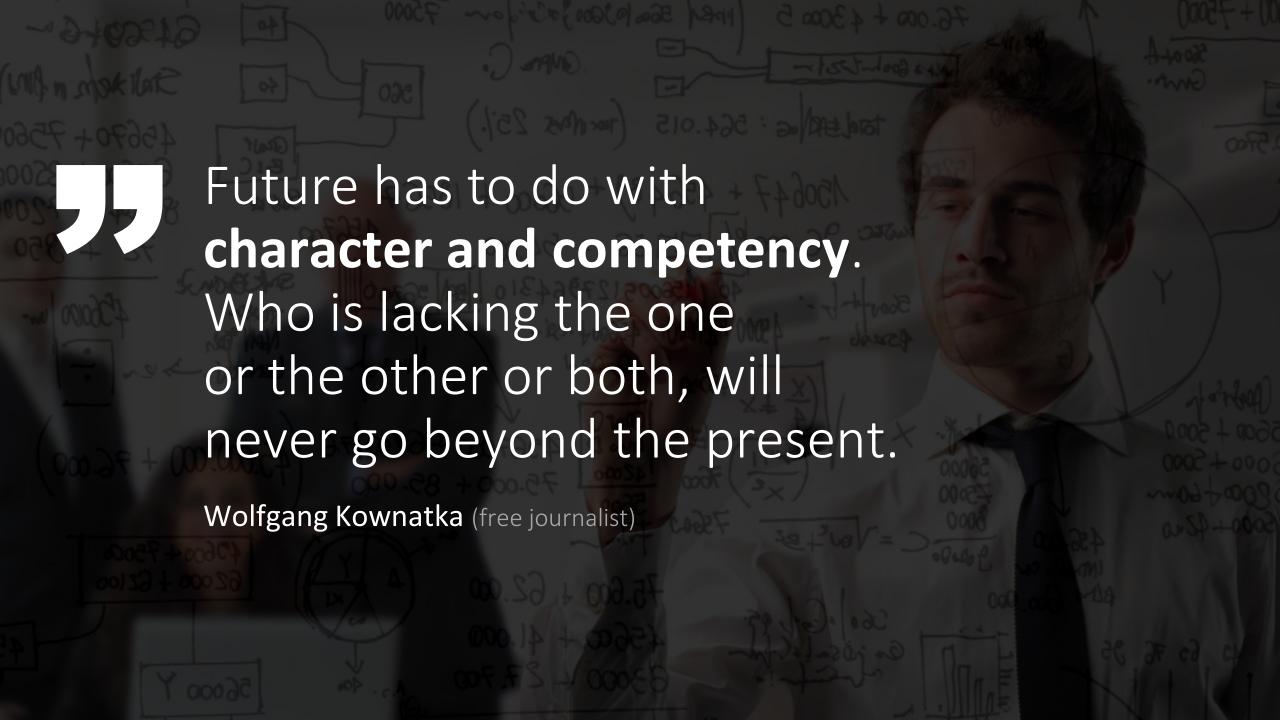
ABILITYto implement requi

to implement required skills & behaviour



REINFORCEMENT

to sustain the change



SKILLS MANAGEMENT

Personal Competence











- Emotional awareness
- Accurate selfassessment
- Self-confidence

- Achievement drive
- Commitment
- Initiative
- Optimism

- Understanding others
- Developing others
- Service orientation
- Leveraging diversity
- Political awareness

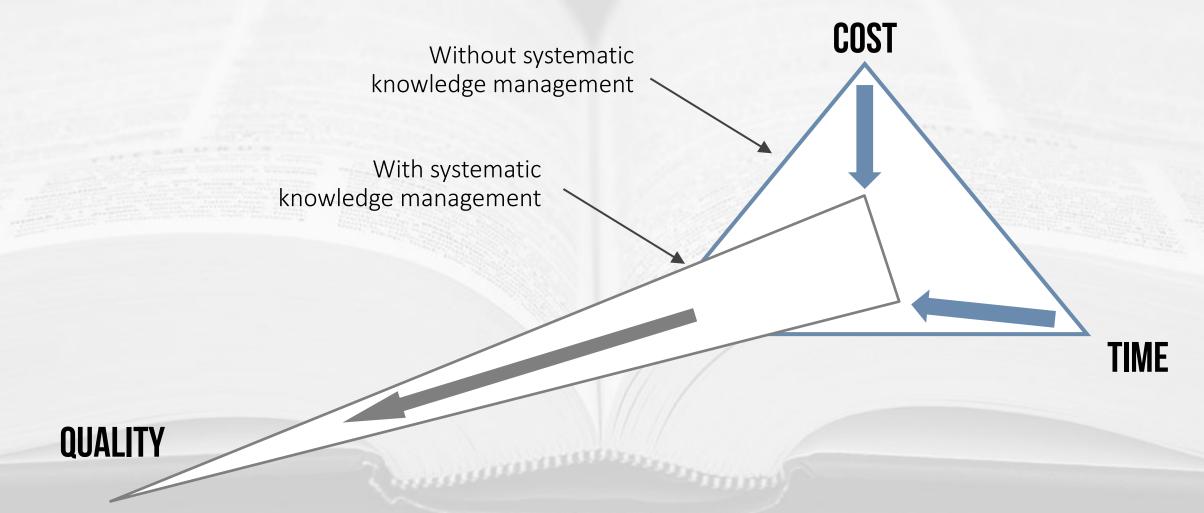
- Influence
- Conflict management
- Communication
- Leadership
- Team capability

- Trustworthiness
- Conscientiousness
- Adaptability
- Innovation



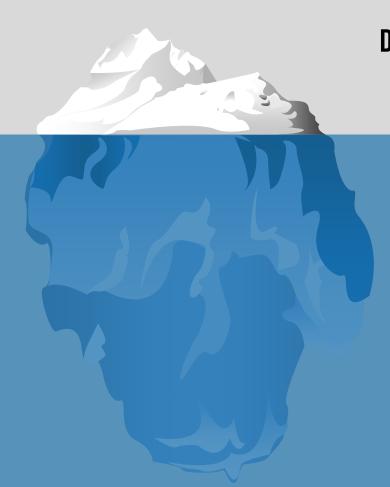
KNOWLEDGE MANAGEMENT

Systematic Success



KNOWLEDGE TYPES

Explicit and Implicit



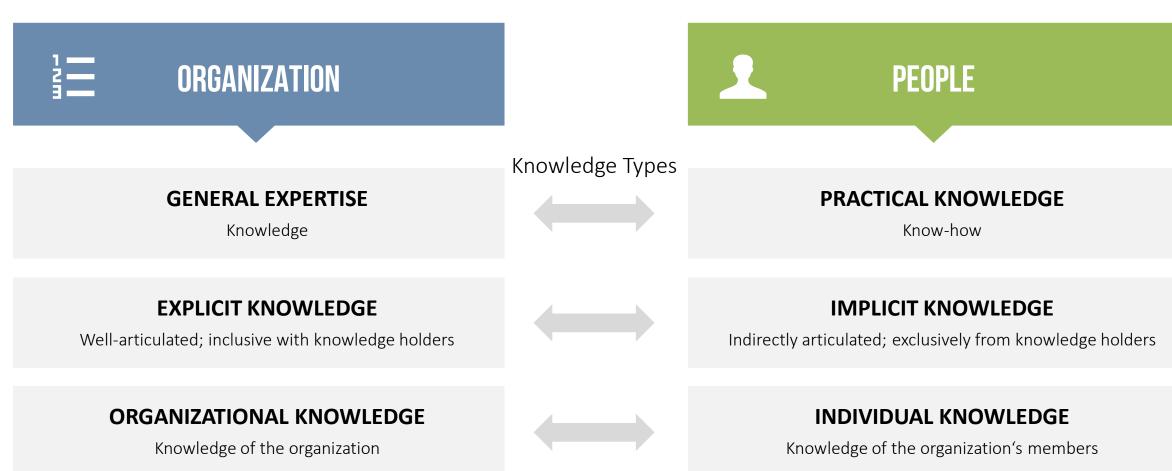
WORK INSTRUCTIONS, DOCUMENTED PROCESSES, REPORTS, DRAWINGS... **Explicit knowledge** is documented knowledge that is easy for others to grasp.

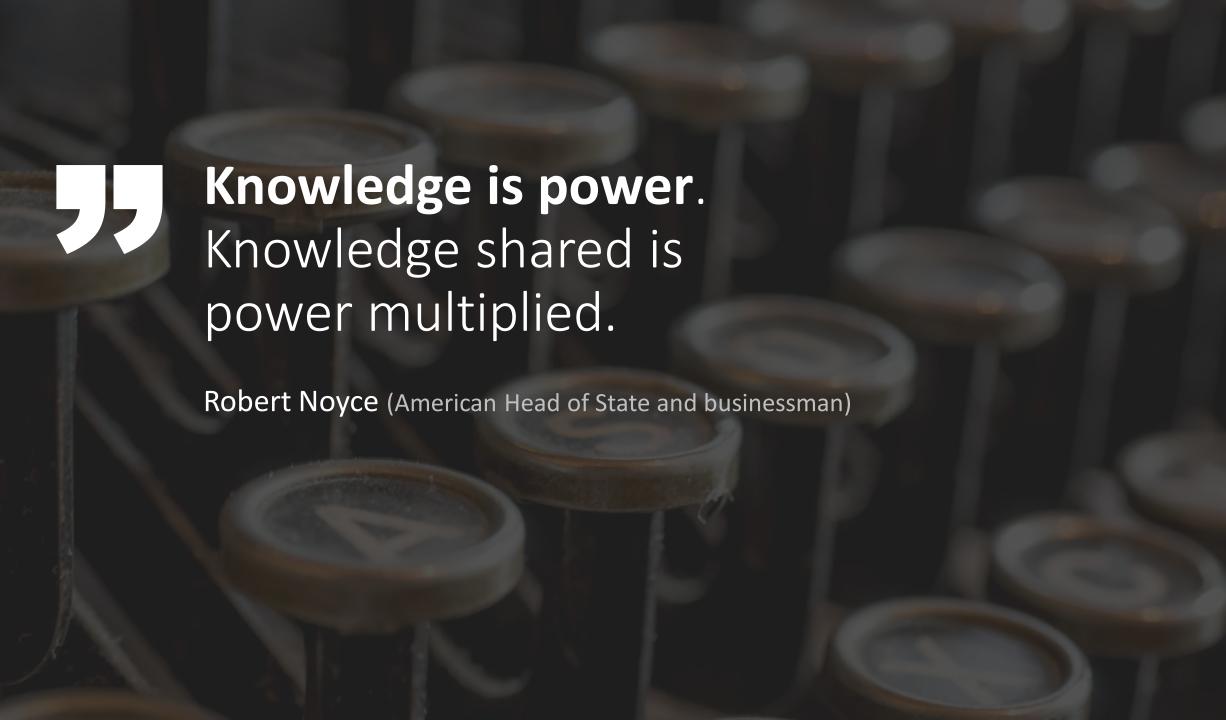
EMPLOYEE EXPERIENCE, ROUTINES, AND SKILLS.

Implicit knowledge exists in the employees' minds and is therefore difficult for others to grasp.

KNOWLEDGE TYPES

Companies and Employees





KNOWLEDGE DEVELOPMENT

Dreyfus Model for Skill Acquisition



NOVICE

Strict obedience to rules, no experience, little situational perception, no discretionary judgement

COMPETENT

Still limited with situational perception, knows the aspect guidelines and treats all attributes and aspects separately yet equally

PROFICIENT

Sets priorities, actions are seen partly in longer-term goals, deliberate planning, standardized procedures

EXPERT

Perceives deviations from the normal pattern, makes decisions more easily, assesses situations as part of the "big picture"

MASTER

Has a wealth of experience, creative solutions and visions, great intuition, breaks the rules when needed, uses analytic approaches sparingly, makes good decisions quickly yet professionally

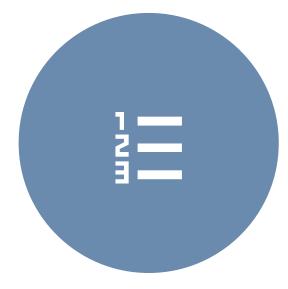
CREATIVE TECHNIQUES

Knowledge Transfer and Expansion with Creativity



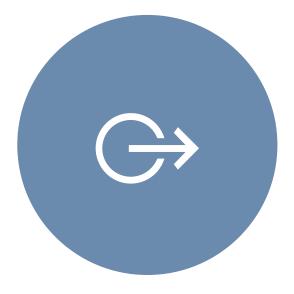
BRAINSTORMING

Collection of ideas through spontaneous talk. The ideas are collected and can be reviewed later.



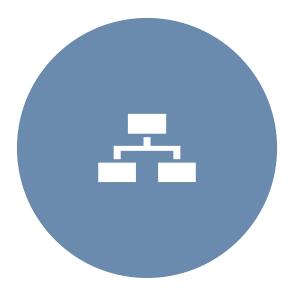
OSBORN CHECKLIST

Exaggerated questions are used to find new approaches. An example is "interchanging cause and effect".



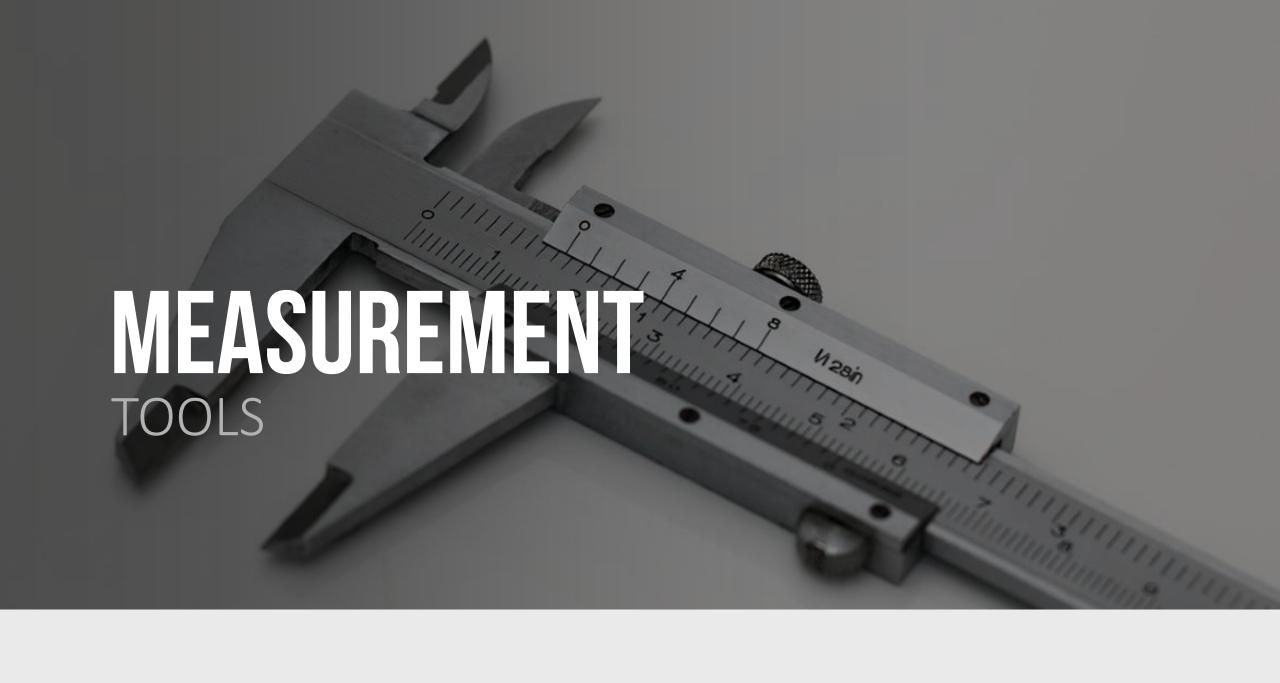
635 METHOD

Six employees each write three ideas. After five minutes, the ideas get passed to the right and is developed further.



MINDMAP

Ideas and priorities of one subject are represented by a branched structure.



SKILLS MEASUREMENT

Example of a Skills Network

