

## WHAT IS THAT; QUALITY?

There are multiple understandings, depending from which angle you are answering the question:

- Logistically right time, place and amounts
- Financially right price
- Technically right product!

General definition:

FITNESS FOR INTENDED USE

The client returns (and not the product)



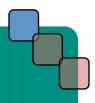
## WHAT IS THAT; QUALITY?

In our (pharmaceutical) world:

Product meets (assured), the requirements as described in the Regulatory Dossier



## RIGHT.....



# BUT NOW: WHAT IS A

## QUALITY SYSTEM?







#### (GOOGLED)



- A group of interacting, interrelated, or interdependent elements forming a complex whole.
- A condition of harmonious, orderly interaction complex.
- An organized and coordinated method; a procedure
- A naturally occurring group of objects or phenomena



## Ok, so what is a Quality-System?

- A Quality <u>System</u> (for us) is an holistic approach:
   There is no exception (it's all)
- Systems
- People
- Equipment
- Buildings/Premises
- Utilities
- Products
- Processes
- •

**Your** companies system should assure that the above assets delivers a product consistent according specification, fit for purpose.





## Finally, we can define system elements

- Documentation
- Training
- Deviations
- Change Management
- Equipment Management
- Vendor management
- Sample management
- Out of Specification
- Stability
- Etc.

The above mentioned Quality System Elements should assure that the principle stated in former slide manages the assets properly.



## **QMS or QMS Elements**

## Depending on how you like to call it:

- The individual items (deviation, training, etc) are called elements of the overall Quality Management System
- OR the individual item is called a Quality System and the overall is Quality Management Systems
- OR maybe other views
- Either way: it should do the job.
- For now: I use the term Quality System and the individual items elements of the QMS (completely arbitrary)



## A table with QMS-elements (not limited)

Change Control/Management	Training
Deviation/NC	Distribution
CAPA	Artwork
Complaints/Incidents	Audit System (Internal/External)
PQR/APR	Documentation
Recall	CMC maintenance
Destruction	Technical Transfer
Vendor Management	Pharmacovigilance
Quality Control	Clinical Studies
On-going Stability	Marketing Material
Enquiries	Regulatory Affairs
Validation/Verification/Qualification	Data Management
External Inspections	Investigations
Facilities / Utilities / Equipment	Development Studies



## **US QUALITY SYSTEM APPROACH**

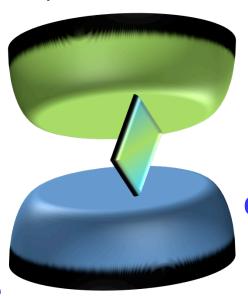




# QMS should be supported by the organizational systems

- Material Control System
- Production and Process Control System
- Records and Document Control System
- Facility and Equipment Control System
- Laboratory Control System
- Divergences Control System
- Validation
- .....

- Responsibilities
- Management Review
- Continuous Compliance



**Control Systems** 

**Organizational Systems** 

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Pharmaceutical Development

Technology Transfer Commercial Manufacturing Product Discontinuation

GLP GCP Investigational products

**GMP** 

## **Management Responsibilities**

<u>PQS</u> elements Process Performance & Product Quality Monitoring System
Corrective Action & Preventive Action (CAPA) System
Change Management System
Management Review

Enablers

Knowledge Management

**Quality Risk Management** 



Pharmaceutical Development

**Technology Transfer** 

**Commercial Manufacturing** 

Product Discontinuation

**Investigational products** 

**GMP** 

**Management Responsibilities** 

Validation and Qualification System
Operations Control System

PQS elements

Process Performance & Product Quality Monitoring System
Corrective Action & Preventive Action (CAPA) System
Change Management System
Management Review

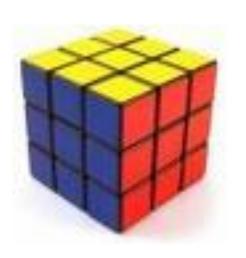
**Knowledge Management** 

**Enablers** 

**Quality Risk Management** 

## **DEPENDING FROM WHICH ANGLE YOU WATCH**

We are talking about the same system. Depending on where you stand, you might see something else, however it's still one system.







## **Performance or Quality?**

- Quality is <u>not</u> a specific Pharmaceutical topic
- Basic principle: good performance on the QMS-elements delivers a well functioning QMS and as a result: Right Quality
- Well performing QMS supports short- and long term business objectives.
- One of the key/<u>mandatory</u> objectives for short- and long term business objective MUST be (in pharma/vaccine world): safety/efficacy/quality for the recipients.
- GMP requirements MUST be built in, in yours' QMS.
- A QMS cannot create miracles (!)



## **CHANGE CONTROL & DEVIATIONS**



## **CHANGES VS. DEVIATIONS**

#### "CHANGES"

Normally: planned

Starts: before execution

#### "DEVIATIONS"

- Normally: unexpected (unplanned)
- Starts during regular work

#### PLANNED DEVIATION vs. TEMPORARILY CHANGE

- In English Planned Deviation might be a contradiction, however in other languages completely normal
- My personal opinion: it doesn't much matter how you call it, as long as you arrange it (decently)
- Batch Records......



#### **CHANGE MANAGEMENT: WHY**

- Preventing undesired changes
- Careful considerations
- Planning of associated actions (SOP's/Validation)
- Communication of change
- Correct Documented Change.



#### CONTROLLED PROCESS FOR CHANGE

 Many ways to manage, e.g. Documentation (wherein the document itself the changes are managed)



## **CHANGE CONTROL SOP**

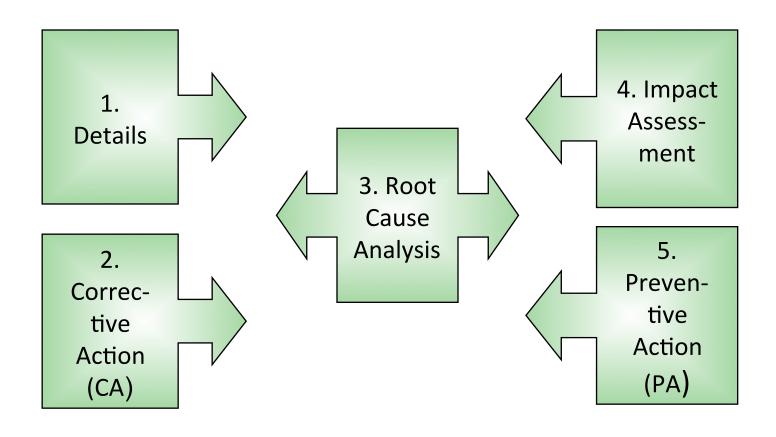
Request Authorization Execution Execution implementation implementation



## **DEVIATIONS**



## **DEVIATIONS**





## SYSTEM FAILURE INVESTIGATION

## The process:

- Documented Deviation
  - Timely: notification at least within 24 hours
- Correction
- 3. Investigation into the root cause
- 4. Corrective Action(s) (CA), prevent recurrence
- 5. Scale and seriousness (Impact Assessment)
- 6. Preventive Action(s) (PA)
  - Root Root Cause Anal
  - Risk Assessments

Industry Practice: close deviations in 30 days

CAPA systeem



# **TRAINING**



## TRAINING REQUIREMENTS

Or better: knowledge management (?)

- Per employee
  - Plan (e.g. per year and during induction)
  - CV (Resume)
  - Each training
  - Job Description
- Traceable
- Overview for management





# CONCLUSION



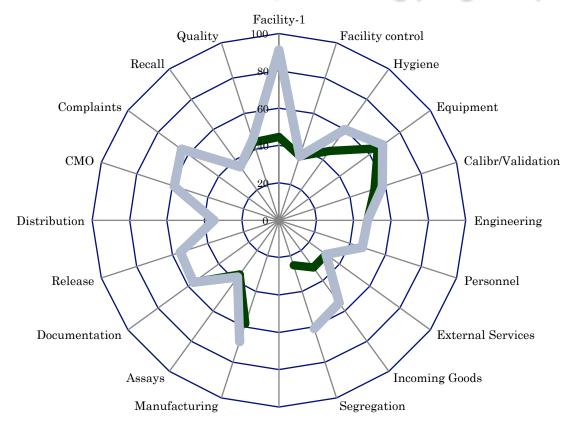
## **Other QMS-Elements**

- Per individual QMS Element
  - Company Requirements
  - Regulatory Requirements
- Interactions between Requirements and/or
   Departments and/or Sites



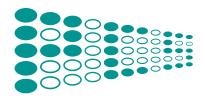
## **Checklist per QMS-Element**

## An example assessment of a QMS, including progress per element





# THANK YOU FOR YOUR ATTENTION



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