SEED ENTERPRISE MANAGEMENT INSTITUTE (SEMIS)

National Plant Protection Organizations (NPPOs) And Seed Quality Regulators Course

16th - 21st January 2017

Seed Enterprises Management Institute Evolving Trends in Seed Quality Management Systems

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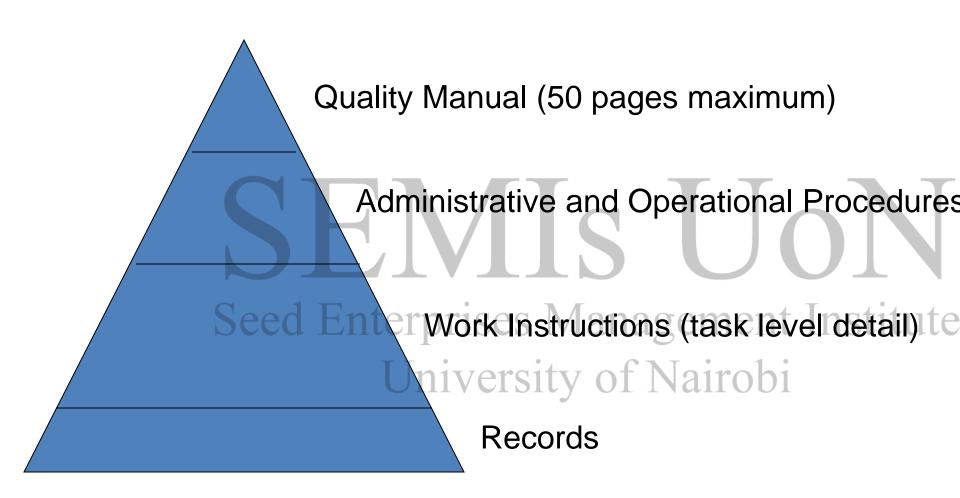
Objectives of internal quality control

- Confirmation we have alignment with business objectives and customer expectations
- Audit/Measurement/Validation
- Managing cost and productivity
- Identification of process improvement opportunities
- Reduction in employee stress
- Possible leveraging opportunities related to nt Institute regulatory compliance.
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What Is Process Management?

- Identification of critical business areas that must be defined, controlled and maintained.
- Critical business actions must be repeatable and measurable
- System design must allow for changing business needs
- Customer requirements must be identified and incorporated into the system. Management Institute University of Nairobi

Documentation in internal quality control

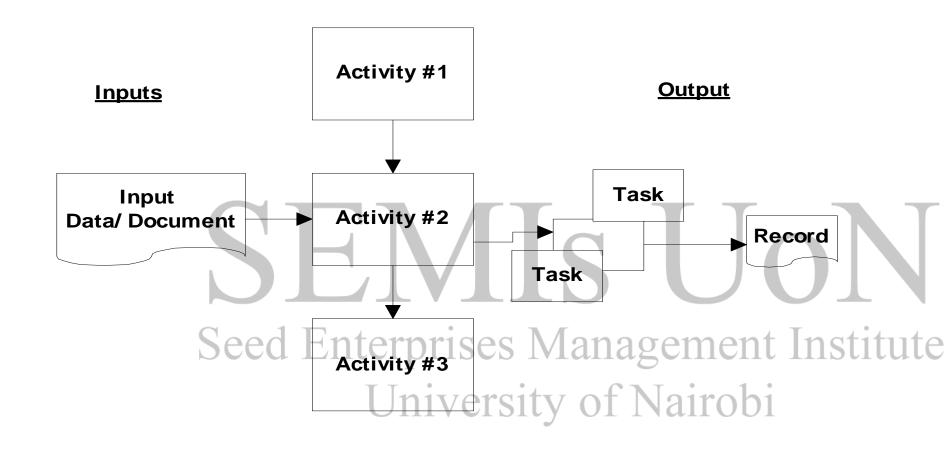


Management system structure - documentation

Quality Manual - Overview of system. 50 pages or less, Quality Operational and Manual Administrative Procedures 4 -6 pages with flow chart includes "what" is to be **Procedures** accomplished Work Instruction = Work Instructions one person one task gement Institute includes "how" work is accomplished Records

Business Process

Procedure/ Activity



Inputs

- Specifications
- Data and/or documents
- Manuals
- Regulations/laws
- Policies and guidelines
- Output from a companion process

Activity

- An action or activity or doing something
- A component of a larger process
- If activity is not initiated, the process will fail
- Typically, made up of several task involving several people

Work Instruction

- An action or activity
- Doing something
- A subcomponent of a procedure
- Typically, one task that involves one person

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Outputs

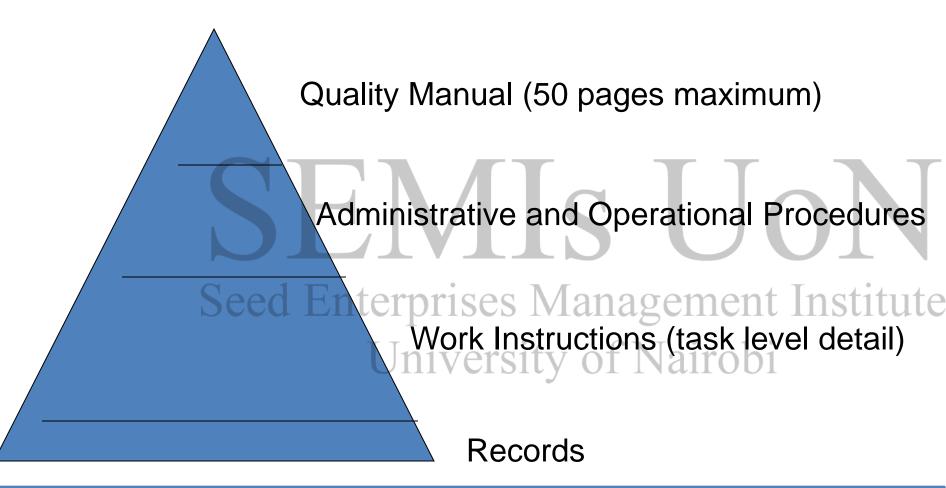
- Confirmation that an activity has achieved a defined state of completeness
- Includes:
 - Records
 - Documents
 - Forms
 - Data Seed Enterprises Management Institute
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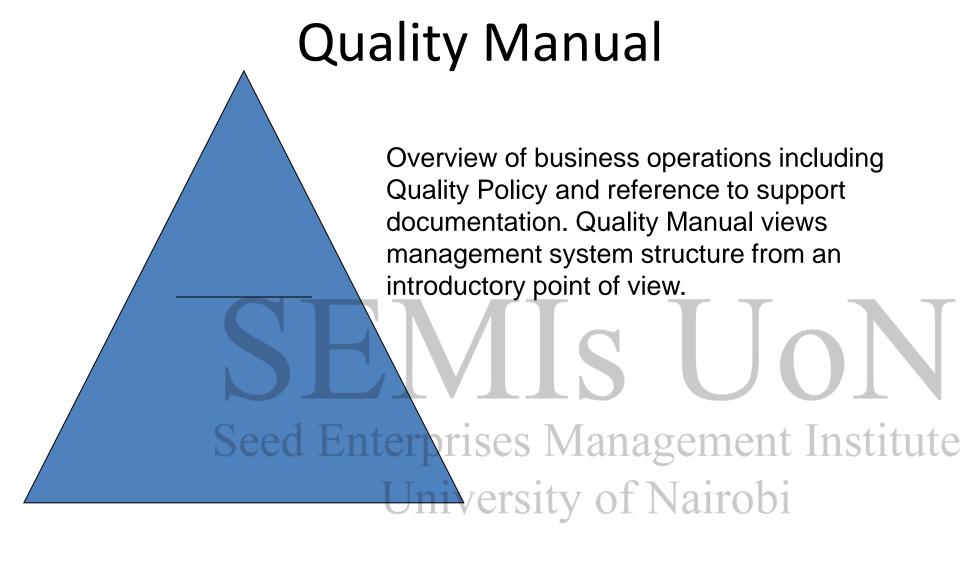
Key Points of Process Analysis

- Defined purpose and scope
- What is happening?
- Who is responsible for what?
- Who interfaces with whom?
- Timing and measurements
- Viewed from a customer and supplierent Institute relationship
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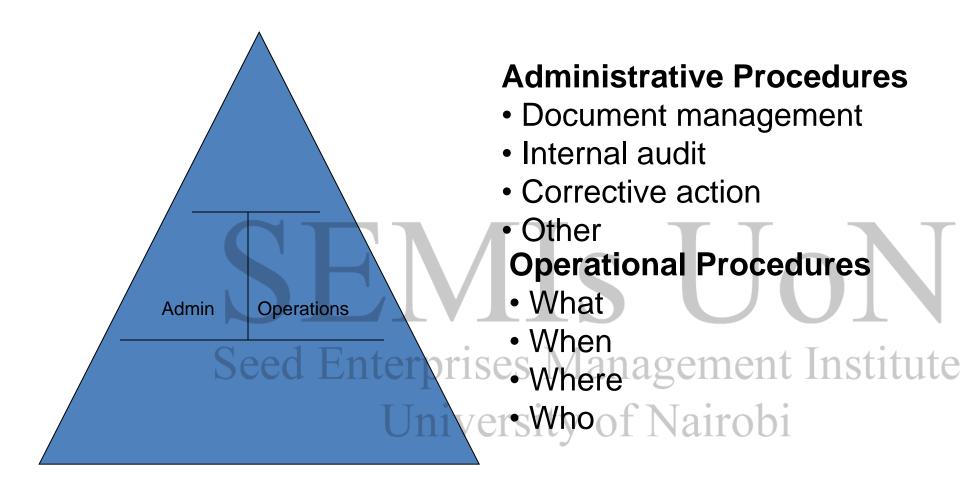
Documentation Structure

System Documentation

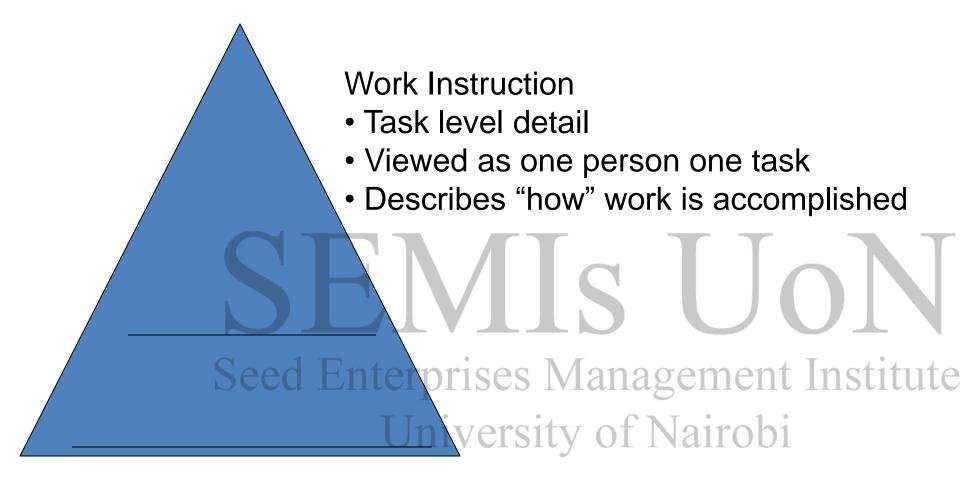


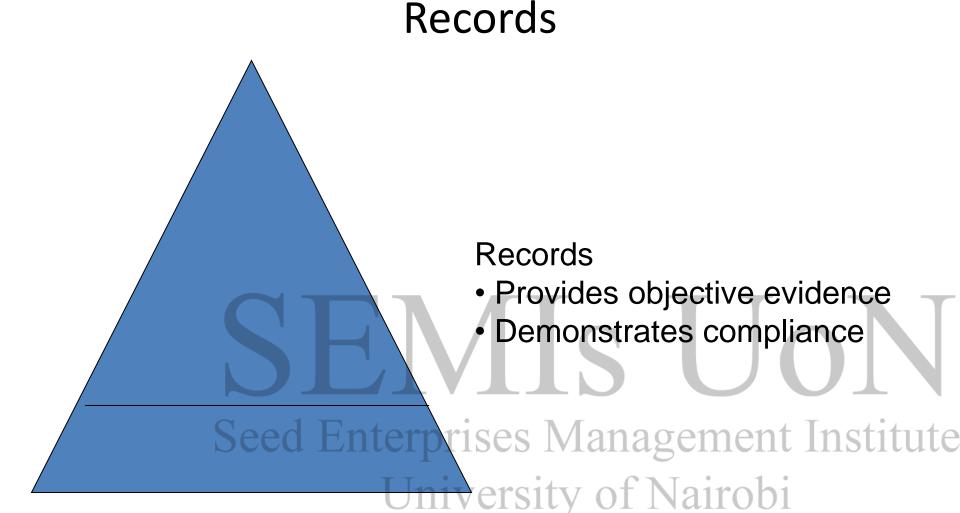


Procedures



Work Instruction





Development Quality Assurance System Documentation

- Obtain data on the actual state of the quality assurance system
- Plan the documentation system
- Collect and compile existing documentation and require additional documentation where necessary
- Review the documentation to ensure clarity, suitability and proper structure
- Develop a distribution policy Management Institute
- Incorporate pertinent changes

- Communicating the company's quality policy, procedures and requirements
- Describing the quality system
- Providing documented bases for auditing quality systems
- Providing continuity of the quality system and its requirements during changing circumstances
- Training personnel in the quality system requirements and methods of compliances Management Institute
- Presenting the quality system for external purposes, such as demonstrating compliance with respective accreditation standards

WHAT TO INCLUDE IN A QUALITY MANUAL

- Scope and field of application
- Table of contents
- Definitions and explanation of abbreviations
- Policy and quality objectives
- Description of the quality system and document control procedures
- Organization and management structure
- Staff and training
- Company premises
- Equipment and calibration rprises Management Institute
- Process management (work flows) ersity of Nairobi
- Recording and archiving
- Quality control procedures

STANDARD OPERATING PROCEDURES (SOPS) & WORK INSTRUCTIONS

- SOPs serve the staff members as a practical working aid for daily use.
- They should be compiled in such a way that they can be used like a "cooking recipe".
- SOPs should be kept concise, exact, to the point and represent the reality by using simple wording.
- Where necessary, SOPs may be supplemented by work instructions, describing single aspects even more detailed or giving examples

Why SOPs instead of referring to general regulations/ standards

- General regulations do not always describe the activities to be conducted sequentially.
- General regulations provide different options for a specific activity; in the SOP only the information relevant for the particular activity shall be available.
- A SOP shall clearly indicate which specific procedure/ method is to be used

Types of SOPs

- System SOPs
- Technical SOPs

NOTE:

General policy and procedures already described in the quality manual should not be mentioned again in the SOP to avoid redundancy and inconsistency.

System SOPs

- Document Control Procedure
- Training of new and experienced staff including recognition, training of new and experienced staff, procedure of warning, suspension etc
- Internal Audit Procedure
- Dealing with Customer Complaints
- Non conforming work and Corrective Action Procedure
- Preventive Action Procedure
- Purchasing of Services and Supplies an agement Institute
- Management Review Procedure ty of Nairobi
- Quality Control Procedure (Monitoring)
- Proficiency Testing Procedure

Technical SOPs

- Maintenance, repair, control or internal calibration for each item or group of equipment
- Storage and disposal of samples
- Control and disposal of chemicals
- Maintenance and description of seed collection(s) and how the verification of species is accomplished including a list of seeds rises Management Institute
- Testing procedures (separate SOP for each type of test)

Other Quality Documents

- Include working instructions, forms & reports
- Working instructions give details on the standard procedure concerned.
- Working instructions or specimen forms may be directly attached to the respective SOP if applicable.
- Forms, checklists, reports related to a standard procedure should be provided where appropriate.

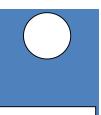
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FLOW CHARTING

- Flow charts help to visualize a process and to represent the essential elements of a given procedure on a single page.
- A flow may be supplemented by explanatory notes or be itself the summary to a textual description.
- By general consensus a very limited number of symbols is used, which facilitates its generic application and makes it a tool that is easilynt Institute understood
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- Visual representation of each step in the process
- Graphically displays functional activity and provides a visual understanding of interrelated occurrences
- Provides an understanding of the entire process
- · Modifications and disconnects can be identified
- Displays a clear relationship between customer and supplierSeed Enterprises Management Institute University of Nairobi

Flowchart Symbols



Begin/End/Linkage





Major Review

Decision

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Data and/or Document f Nairobi

Basic Flowcharting Guidelines

- Start at the top of the page and end at the bottom
- As a general rule do not exceed 20 symbols per page
- Describe activities with same level of process complexity
- To much detail will defeat the purpose of a flowchart
- Do not develop flowcharts without input from everyone involved in the process
- Use active terms nverb/noun Management Institute - Schedule meeting inversity of Nairobi

 - Develop plan
 - Conduct audit

Thank you for the audience Ion