

Step-by-Step Configuration (Functional)

STEP 1: Create Master Inspection Characteristics (MICs)

MICs define **WHAT** is inspected.

Transaction Code: QS21

For Quantitative MIC (Length):

1. Enter **Plant**
2. Enter MIC Name → MIC_LEN
3. Choose **Quantitative**
4. Maintain:
 - Target value: 100
 - Lower limit: 99
 - Upper limit: 101
5. Save.

Repeat for qualitative:

MIC: MIC_SURF → set type as **Qualitative** and define catalog (OK / Not OK).

. Types of MICs

Type	Description	Example
Quantitative	Numeric values	Length, Weight
Qualitative	Yes/No or codes	Surface OK / Not OK

Example MICs used in this project:

MIC Code	Description	Type
MIC_LEN	Shaft Length (mm)	Quantitative
MIC_SURF	Surface Finish	Qualitative

STEP 2: Create Sampling Procedure

Sampling procedure defines **HOW MANY** samples are inspected.

Transaction Code: QDV1

- ☐ Enter Sampling Procedure → SP10
- ☐ Description → *10% Sampling*
- ☐ Sampling Type → **Fixed Percentage** [We can select the sampling type as per our requirement]
- ☐ Enter → 10 %
- ☐ Minimum sample size → 1
- ☐ Save.

Result:

- Lot quantity: 100 → Inspect 10 pieces
- Lot quantity: 50 → Inspect 5 pieces

STEP 3: Create Inspection Plan

Inspection plan combines:

- Operations
- MICs
- Sampling rules
- Inspection instructions

Transaction Code: QP01

- ☐ Enter:
 - Material: FG-1001
 - Plant
 - Usage: **5 (Goods Receipt/Production)**
- ☐ Create an operation (e.g., 0010 — Inspection)
- ☐ Go to **Characteristics Assignment**

☐ Add:

- MIC_LEN
- MIC_SURF

☐ Assign **Sampling Procedure SP10**

☐ Save.

STEP 4: Assign Inspection Type to Material

T-Code: MM02

1. Go to **Quality Management view**
2. Activate:
 - **Inspection Type 04** (In-Process inspection) or
 - **Inspection Type 01** (GR for PO)
3. Save.

Execution Process

1. Production order is confirmed
2. SAP automatically creates an **Inspection Lot**
3. Sampling quantity is calculated
4. Results are recorded using **QE51N**
5. System validates results against MIC limits
6. Usage Decision is made in **QA11**