

SMT

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SAT – Site Acceptance Test

Description

Final validation at customer site under real production conditions.

Includes

- Installation verification
 - Functional testing with real product
 - Process tuning
 - Integration with customer systems (MES/ERP)
 - Performance validation
 - Final acceptance documentation
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Scope of Application

- Individual machines
- Complete production lines
- Integration with peripherals
- Connection with customer systems (MES, ERP, networks)

Performed after full installation (mechanical, electrical, automation).

Customer Prerequisites (to be provided before SAT – within 2 weeks of PO)

- FAT protocol
 - Electrical and pneumatic connections operational
 - Availability of utilities (air, power, network, etc.)
 - Materials/product for testing
 - Availability of key personnel (operators, maintenance)
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SAT Content Installation Verification

- Final mechanical inspection
 - Electrical and pneumatic connections
 - Integration with existing equipment
 - Layout validation
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Functional Testing (real environment)

- Full automatic sequences
- Operation with real product
- Process tuning
- Manual/automatic validation
- Simulation of real conditions

Integration (if applicable)

- Communication with MES/ERP
 - Interaction with upstream/downstream equipment
 - Line synchronization
 - External signals
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Safety

- On-site validation of safety systems
 - Emergency stops
 - Door interlocks
 - Compliance with regulations in real environment
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Performance

- Cycle time validation
- Production capacity
- Stability in continuous production
- Product quality

SAT Protocol

Must include:

- Detailed test plan
- Acceptance criteria linked to real usage
- Performance validation
- Results recording
- Traceability with FAT and initial requirements

Roles & Responsibilities (to be defined prior to FAT/SAT)

- Manufacturer: execution and adjustments
- Customer: operational validation
- Project Manager: coordination
- Customer production team: real-condition validation
- Customer maintenance: technical validation

Deviation Management

During SAT:

- Installation-related issues
- Process adjustments
- Incomplete integrations

Deliverables

- Completed SAT protocol
 - Signed acceptance report
 - Final process parameters (settings)
 - Updated documentation
 - Final software backup
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