# SOP Template: Breakdown Troubleshooting and Escalation Guidelines

This SOP details **breakdown troubleshooting and escalation guidelines** to ensure timely identification, diagnosis, and resolution of equipment or system failures. It includes steps for immediate troubleshooting, criteria for escalating issues to higher levels of support, communication protocols, and documentation requirements to minimize downtime and maintain operational efficiency.

### 1. Purpose

To provide a standardized procedure for troubleshooting equipment or system breakdowns and escalating unresolved issues effectively, ensuring minimal operational disruption.

## 2. Scope

This SOP applies to all personnel responsible for the maintenance, operation, and support of equipment or systems within the organization.

## 3. Responsibilities

- Operators: Perform initial checks and report issues promptly.
- Maintenance Team: Execute troubleshooting steps and escalate failures as needed.
- Supervisors/Managers: Authorize escalations and coordinate with external vendors if required.
- IT/Engineering: Support advanced troubleshooting and provide technical expertise.

## 4. Immediate Troubleshooting Steps

- 1. Identify signs of breakdown or malfunction.
- Secure the area and ensure safety protocols are followed.
- 3. Perform initial checks:
  - o Review system/operator logs for error messages.
  - Verify power supply and connections.
  - · Reset or restart the equipment if safe.
- 4. Document all actions taken and observations.
- 5. If resolved, restore normal operation and update records.

#### 5. Escalation Criteria

- Issue persists after initial troubleshooting steps.
- Breakdown affects critical operations or safety.
- Lack of required expertise or parts on-site.
- Downtime exceeds acceptable limits (define specific timeframes).

#### 6. Escalation Process

- 1. Notify immediate supervisor or maintenance lead.
- Provide detailed report (problem description, steps taken, error messages).
- 3. Supervisor initiates contact with next support level (e.g., IT/Engineering or vendor).
- 4. Escalate to management if further resources or external support are required.
- 5. Continue to document all communications and actions.

#### 7. Communication Protocols

- Use designated communication channels (e.g., radio, phone, ticketing system).
- Update relevant stakeholders at each escalation level.
- Provide status updates at defined intervals until resolution.

# 8. Documentation Requirements

- 1. Record all breakdown incidents in the maintenance log or ticketing system.
- 2. Include time, equipment/system ID, description, actions taken, and outcome.
- 3. Update SOP or training materials if new failure modes or solutions are identified.

## 9. Reference Table: Escalation Flow

Level	Responsible	Time Allowance	Action
1	Operator	10 mins	Initial troubleshooting and reporting
2	Maintenance Team	30 mins	Advanced troubleshooting, escalate if unresolved
3	Supervisor/IT/Engineering	1 hour	System-level analysis, escalate if necessary
4	Manager/External Vendor	As required	Full resolution and root cause analysis

# 10. Review and Continuous Improvement

- Review escalation records regularly to identify trends.
- Implement corrective actions and update SOPs as required.