# 8D-Roadmap

Problem Solving Roadmap

| Discipline | Main Tasks | Tools | Results |
|---|---|---|---|
| Discipline 1: Establish the team | – Establish the problem solving team (incl. team leader) | 8D-Report | – Problem solving team is established |
| Discipline 2: Describe the problem | – Record, completely describe and differentiate the problem | Inspection Chart; Histogram; Pareto-Diagram | – Problem is clearly described and differentiated |
| Discipline 3: Take interim actions | – Remove defective parts from circulation<br>– Take actions to ensure ability to supply | Interim Working Schedule; Interim Control Plan | – Problem is isolated from the customer (internal/external) |
| Discipline 4: Analyse the root causes | – Identify possible causes<br>– Determine and describe cause and effect relationships | Cause & Effect-Diagram; Time Series Plot; Correlation Diagram | – Root causes of the problem are identified |
| Discipline 5: Determine corrective actions (incl. verification) | – Develop, assess and select potential corrective actions<br>– Test selected corrective actions and prove effectiveness | FMEA; Design Verification Plan & Report; Process Capability Study | – Effectiveness of corrective actions is proven |
| Discipline 6: Implement corrective actions | – Implement corrective actions within the organisational structure<br>– Suspend interim actions | Working Schedule; Control Plan; Training Plan | – Corrective actions are sustainably implemented in the organisation |
| Discipline 7: Take preventive actions | – Make the lessons learned available for other existing products/processes<br>– Make the lessons learned available for future products/processes | Design guideline; Audit Checklist; FMEA-Software / FMEA-Database | – Lessons learned are used also for other products/processes |
| Discipline 8: Close the problem solving process | – Review the successful implementation of agreed actions and complete the problem solving process | 8D-Report | – Problem Solving Process is formally closed |

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