



Root Cause Analysis

POWERFUL ANALYSIS TO PREVENT HIGH-IMPACT FAILURES

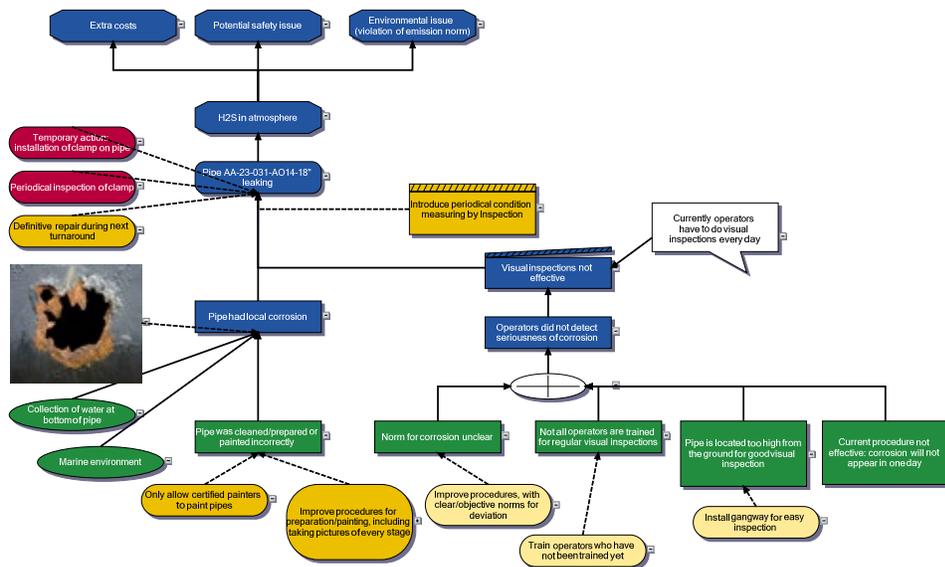
Root Cause Analysis (RCA) is a tried and tested method to identify the causes of failure incidents. The right prevention or mitigation measures can only be taken when the root causes have been established in a structured process. With the RCA module for strEAM+, MaxGrip developed powerful software to support innovative ways to execute, manage and report RCA.

Frequent failures and safety incidents can have a high impact on your operations, quality and bottom line. Nevertheless, such problems are often met with makeshift solutions. When jumping to conclusions and resorting to stopgaps, you are treating symptoms instead of causes. The consequences can be severe, not only because the issue takes too much time to resolve. Problems keep returning and have increasingly negative effects on reliability, operational costs, the environment, and even your corporate image.

The integration of strEAM+ RCA in IBM Maximo brings the benefit of full traceability. All data can be visualized and easily retrieved, as every incident and solution is stored. strEAM+ also reduces the complexity of comprehensive analysis by streamlining and supporting the entire RCA process. A structured method is needed to go beyond the traditional RCA approach, often triggered by a high-visibility incident and focused on meeting regulatory requirements. strEAM+ RCA not only ensures your compliance, it also shows you how to achieve significant savings by preventing frequent failures. strEAM+ RCA typically yields more than a tenfold ROI.

THE NEW ROOT CAUSE ANALYSIS

MaxGrip developed this innovative module as the ideal RCA tool in strEAM+ for IBM Maximo. The module is based on the unique RATIO approach, a five-step method for analysing, solving, and preventing problems and incidents. RCA is all about asking the right questions. The traditional 5-Why approach produces a singular answer, whereas the RATIO method uncovers a multitude of physical, human and systemic root causes. This greatly increases the chance of eliminating the risk of recurrence.



If necessary, Event Mapping can build a complete cause-and-effect tree, mapping out all contributing circumstances and breached barriers. It presents a clear overview of all possible causes and actions, and includes evaluations of the actions taken in the past. If unknown causes should remain, Problem Analysis and Human Performance Analysis serve to identify any technical, human or organisational problem. Compared with traditional fault tree methods, these tools save a lot of time usually spent on trial and error.

The RATIO approach delivers a complete picture and holistic analysis. Addressing the whole problem, understanding each and every aspect of it, results in better solutions and better ways to prevent reoccurrence.

REDUCE OPERATIONAL RISKS AND DELIVER CONSISTENT HIGH QUALITY WITH STREAM+ RCA:

- RATIO approach avoids common pitfalls and leads to new insights
- Clear links between failure mode and maintenance for each asset
- Easy managing of RCA data and sharing between departments
- Uniform RCA method can be integrated with FMECA functionality
- Clear reports on potential savings and financial effects of RCA actions
- Contributes to continuous asset performance improvement

CLARIFY RESPONSIBILITIES

Structured RCA analysis is exceedingly important against the background of growing operational complexity, the pace of technical innovation, and ever stricter legislation. Training people in RCA methodology is usually not enough to embed its use in the daily working environment. This strEAM+ module provides an RCA process with clear triggers and a clear division of roles and responsibilities. It enables your organization to really get to the root causes of problems, communicate all associated activities, and demonstrate that everything was done to prevent any repetition.

ADDRESS THE WHOLE PROBLEM

strEAM+ RCA enables you to thoroughly assess high-impact incidents and make the outcome permanently available to all stakeholders. Learning from major problems and creating transparency and traceability is the way to systematically reduce risks.



RATIO process

Powered by MaxGrip

strEAM+ is a solution of MaxGrip, the world's front-runner in Asset Performance Management. Directly embedded into your EAM system, strEAM+ ensures easy adoption, operational focus on reliability, data integrity and real-time insight into asset performance. strEAM+ is the best integrated software solution available today to efficiently balance risks and costs against your business objectives.

MaxGrip is innovative and ambitious. It is our mission to make the world a safer place. We believe that all asset-related incidents can be prevented. By analyzing risks and optimizing maintenance, we enable our clients to focus on their core business and make continuous improvement a way of life.

MaxGrip has an exceptional track record in bridging the gap between theory and practice. We live and breathe reliability, using only proven methodologies to help clients everywhere to meet their Asset Performance Management objectives. The world's largest enterprises already rely on MaxGrip every day.