

# Root Cause Failure Analysis

**Are you so busy  
“putting out fires”  
that you don’t have  
time for RCFA?**

Root Cause Failure Analysis can unleash a virtuous cycle of cost and expense reduction. While finding the time to get started in RCFA can be a challenge, each session will release resources that are typically consumed by recurring repairs, freeing them to focus on the next bad actor.

## WHAT IS ROOT CAUSE FAILURE ANALYSIS?

RCFA is a defined process that systematically identifies the technical, human and latent roots of a problem. It is applied to equipment problems in the effort to eliminate failure potential.

## EMERSON’S ROOT CAUSE FAILURE ANALYSIS SERVICES

- Conduct RCFA strategy session
- Develop overall RCFA program flow
- Select 1st RCFA method
- Select materials analysis lab
- Develop tracking tool
- Train personnel on 1st method
- Select additional methods
- Provide training on additional methods

## BEGINNING YOUR ANALYSIS

- Decide the level of detail to be used in the analysis
- Seek input from those involved to gain a more in-depth understanding of what occurred
- Conduct an initial examination at the failure site
- Look at current operating conditions vs. optimal operating conditions
- Establish the primary failure and the resulting secondary failures
- Study and analyze the components of the primary failure
- Conduct all available testing technologies and verify results against design
- Make a determination as to the type of failure, the work process and human systems involved in the breakdown

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**Emerson**  
**Operational Certainty Consulting**  
1100 W. Louis Henna Blvd.  
Round Rock, TX 78681-7430  
☎ +1 888 889 9170

🌐 [www.emerson.com/opcertcon](http://www.emerson.com/opcertcon)