

# Action Error Analysis (AEA)

*Presented by*

*Asbjørn Andersen, Well Reliability Specialist*

# AEA objective

## ■ Main objective

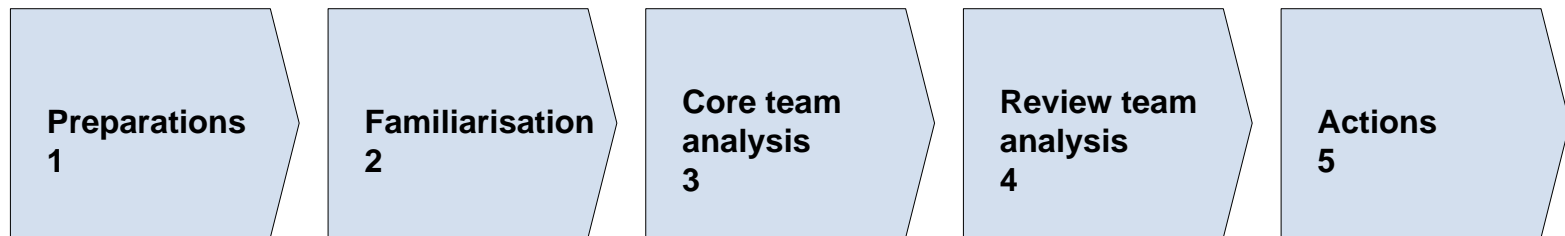
- Identify potential human errors in critical procedures
- Reduce the risk to an acceptable level through risk reducing actions

## ■ Detailed objectives

- Be a comprehensive and systematic documentation of potential human errors
- Identify human error causes and human error cause reducing actions
- To identify serious consequences and consequence reducing actions
- Increase the knowledge and understanding of the procedure
- Improve vendor's and operator's reputation by having control of procedures

# Work process

- The AEA work process is divided into five activities



The core team becomes familiar with the documentation

The analysis is reviewed and corrected by a multi-discipline review team

Agree on what to do, appoint participants and provide documentation

The core team is filling out the risk analysis worksheet

Actions are evaluated and implemented

# Worksheet

## ■ AEA worksheet

Task step	Cue	Action feedback/ Effect feedback	Action error	Cause	Consequences	Risk	Suggested risk reducing actions and remarks

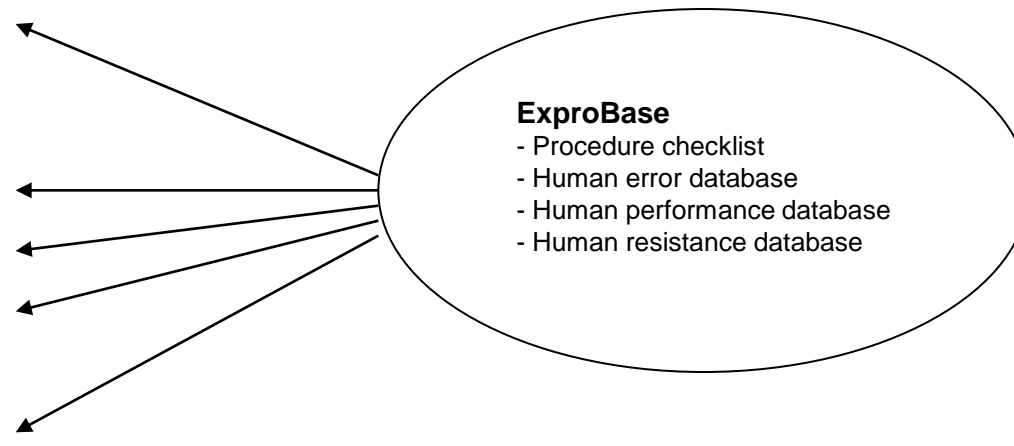
## ■ Notes

- The worksheet will be adjusted to the procedure to be analysed
- Each column has a predetermined and structured format for the content
- Risk is a function of failure rate and severity
- Both *existing* cause and consequence reducing actions are included
- Suggestions for *new* cause and consequence reducing actions are included

# Support

## ■ Worksheet columns

- Task step
- Cues
- Feedback
- Action errors
- Causes
- Consequence
- Risk
- Risk reduction



# When

## ■ Detail design

- The AEA should be executed for critical procedures during the detail design phase

## ■ Established procedures

- The AEA can also be executed for established procedures