



# Cone Crusher Maintenance



## Introduction:

We have tailored this course for operational and maintenance personnel who work with our cone crushers and have limited or some practical experience working with this equipment.

### **THIS TRAINING IS DESIGNED TO IMPROVE**

- Best operation and maintenance processes for the equipment
- Maximum lifetime of the crusher and its main components
- The uptime of equipment

## Objectives

- Better understanding of how the crusher operates
- Awareness of biggest impacting factors on the crushing process
- Understanding how to replace main components
- Recognizing the value of recommended daily, weekly and monthly checks

## Course Outline

### **HEALTH AND SAFETY - Review of warning signs and safety regulations in the equipment manual**

- PROCESS - Basics that should be considered in the crushing process
- Material properties like hardness and wear
- Reduction rate of material and reduction limitations

### **REVIEW OF THE INTERACTIVE TRAINING MATERIAL (USB STICK) - Walkthrough and basic navigation of interactive training material**

#### **THEORETICAL REVIEW OF THE CRUSHER COMPONENTS**

- Top shell components
- Main shaft components
- Bottom shell components
- Eccentric components
- Pinion shaft components
- Hydroset system function and components
- Main lubrication oil system function and components
- Pinion shaft lubrication system function and components
- Dump valve function and components

#### **TANK INSTRUMENTATION MONITORING SYSTEM (TIMS)**

- Description of TIMS and its functions
- OPERATION AND MAINTENANCE OF CRUSHER
- Review of daily service and maintenance points for the crusher and potential operational consequences if these are not followed
- Review of weekly service and maintenance points for the crusher and potential operational consequences if these are not followed
- Review of monthly service and maintenance points for the crusher and potential operational consequences if these are not followed

#### **CRUSHING CHAMBERS AND FEEDING THE CRUSHER**

- Minimizing compaction in the crusher
- Minimizing segregation when feeding the crusher
- Different types of crushing chambers and their different benefits
- Wear patterns in the crushing chamber
- The importance of the feed for a good crushing operation

#### **CRUSHER CONTROL SYSTEM ASRi**

- Why ASRi, description of ASRi system functions
- Review of ASRi screens
- Setup of ASRi programs for the crusher
- Simple trouble shooting using ASRi
- Practical exercises with ASRi simulator