

Grinding Optimization

Objective:

Grinding is the most expensive process in cement industry. Any optimization in its components or techniques is directly translated to cost saving.

The course provides for grinding process details with focus on key elements with potential optimization, i.e. increase productivity and/or decrease cost. Conformance with specifications and consistent product quality is undoubtedly a main area of optimization.

The course presents also actual cases with exact figures before and after optimization.

Participants:

The course addresses professionals with some years of experience working in the field of Raw Material Mills, Cement Mills and Process Engineering.

Course Outlines:

- Comminution engineering
- Grinding systems
- Tube mill dimensioning
- Mill internals and ball charge
- Operation of tube mills
- Roller mills
- Air separators
- Separator performance test
- Application of grinding aids
- Mill inspection and data recording
- Longitudinal sieving test
- Ball charge optimization
- Case studies:
 - Tourah Portland Cement Co.
 - Assiut Cement Co.
 - General case study