

# On-site technical training for cement industry personnel

We make your employees fit for the future



thyssenkrupp

The training and development of personnel is a decisive measure when it comes to increasing the profitability of your plants and machines. With a custom-tailored technical training course, our experts systematically increase your employees' know-how. The result: a clear boost in terms of safety in daily operations, as well as a lasting increase in motivation. Output and product quality increase as a result, there are fewer cases of damage and your plant availability is improved.

We offer our training programs for our entire portfolio for the cement sector, for all machines and processes, from raw material to the end product. In methodological training courses, we increase the depth of knowledge of your employees, whether they be process engineers, production controllers, maintenance engineers, maintenance personnel, electricians, automation staff or laboratory personnel.

The content focus of the training courses is on operation, processes and optimization, mechanical maintenance of the machines, as well as process systems and laboratory automation. The participants are familiarized with current developments and get to know the latest state of the art. We make your employees fit for the demands of daily operations.

From individual training courses to classic technology forums, we offer a great variety of possibilities for training and developing your employees in the optimal manner. Our methodology is innovative and is oriented to your specific demands.

The training courses are held entirely according to your specific requirements, at one of our modern training centers, at one of our worldwide thyssenkrupp branches or at your plants. Make use of the training courses to gain a competitive advantage in the marketplace.

Your employees can profit from our experience, thus putting you in the position of being able to increase plant efficiency decisively.

We can offer you the training courses in several languages and can conduct them throughout the world. Get in touch with us to discuss your specific demand.

## Service advantages

- Training by experts and specialists from thyssenkrupp
- Systematic technical communication of knowledge
- Individually designed according to your requirements
- Integration of suppliers and outside specialists
- Global practicability



## Your contact at thyssenkrupp

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## Global contact

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Field & workshop  
services

engineering. tomorrow. together.

# 360° Service

Service solutions throughout the entire life cycle of your plant



thyssenkrupp



## Parts & supply management

We are the experts when it comes to the supply with spare and wear parts for your plant – over the entire lifetime, at the right time and with the right quality.

### Spare parts supply

- All spare parts and components for your asset in OEM quality
- Always state of the art technology with guaranteed functionality
- Attractive frame contracts and supply agreements

### Wear parts solutions

- Development of wear parts according to your requirements
- Individual solutions in regards of quality and performance
- Innovative wear parts concepts

### Advanced parts solutions

- Engineering and manufacturing of individual spare parts
- Continuous further development of spare parts and components in order to increase the performance of your plant
- Spare and wear parts for plants genuinely not developed by thyssenkrupp



## Field & workshop services

We offer you local assistance when it comes to overhauling spare and wear parts, or when maintenance and servicing is needed.

### Technical inspections

- Forward-looking inspections of machines and components

### Repairs and field support

- Fulltime site support and advice after handover of equipment
- Fault identification and emergency repair of components
- Installation and dismantling
- Equipment adjustments and alignments

### Workshop services

- Local fabrication of spare parts
- Refurbishment and supply of thyssenkrupp and third party components

### Operator & maintenance training courses

- Customer training for all areas of thyssenkrupp portfolio
- Utilization of product experts within thyssenkrupp's global network



## Revamps & outages

Over the course of time, demands change. In order to meet these changed demands, we offer you custom-tailored revamp solutions.

### Analysis, engineering and manufacturing

- Plant status and environmental analysis and assessment
- Feasibility studies
- Basic, front-end and detail engineering
- Manufacturing of individual equipment

### Plant improvements

- Custom-tailored revamps and retrofitting solutions
- Debottlenecking through capacity extensions
- Efficiency enhancement through modernization and upgrades
- Emission reduction
- Safety and integrity upgrades
- Reliability improvement

### Revamps execution up to EPC

- Execution of complex revamp and outage projects
- Execution of EPC revamps projects
- Custom-tailored risk and profit sharing models

### Turnaround management

- Management of plant turnarounds



## Asset management

We offer you a holistic asset management approach in order to reduce the overall operating expenses of your plant.

### Consulting & audits

- Evaluation and assessment of effectiveness and efficiency
- Process mapping and gap analysis
- Derivation and supervision of improvement measures

### Technical guidance

- Implementation of improvement measures
- Technical improvement of existing machines and components
- Strategic analysis and future planning
- Improvement of processes and procedures

### Operation & maintenance contracts

- Complete or partial take-over of maintenance and/or operations activities
- One-stop operation and maintenance solutions including parts and consumables
- Custom-tailored business models focusing on a win-win situation

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