Kiln process and operation

Onsite training
This course covers all main theoretical subjects within pyro technology and clinker production. We use the FLSmidth Cemulator® simulator to train participants in operational issues.

Benefits
Participants will acquire an in-depth understanding of the process and equipment. Improving the skills in pyro operation and control will increase the plant’s performance factor, increase overall equipment effectiveness and reduce maintenance costs.

Learning objectives
You will learn how to:
- Describe the main material and gas flows in the pyro department
- Describe standard operation principles for the pyro department
- Evaluate and benchmark the kiln main burner performance and flame formation
- Recognize and mitigate the impact of the raw materials chemical modules on the burning process
- Recognize the use of basic heat balance calculations in benchmarking the pyro equipment performance
- List and describe standard interlockings for the equipment in the pyro system
- Execute the correct start and stop sequence for the pyro system

Course main contents
- Process and kiln system, basic principles of operation
- Fuel types, their characteristics and impact on the pyro process
- Burnability of raw mix and the clinker formation
- Recirculation behaviour of volatile matter
- The use of alternative fuels in the pyro system
- Mitigating the impact of operational disturbances
- Start, stop and operational procedure training using the Cemulator® process simulator

Form
The form of teaching and work will be instructor led classroom training with hands-on use of the process simulator. Site visits will take place when possible.

Documentation
Each participant will receive a complete set of training materials in soft copy.

Local permissions
The training group will need permissions to access the kiln and clinker cooler area. Also access to CCR and local panels for taking readings if necessary.

INFORMATION
Duration: 5 days
Audience: Kiln operators, process and production engineers
No. of participants: 10-20

More Information
Please contact:
Mr. Henrik Rask Sønderborg
E-mail: HRS@flsmidth.com
flsinstitute@flsmidth.com