Know how?
Know Andritz Küsters!

Quality demands knowledge. This is true for our developers and design engineers as well as for your operating and maintenance personnel. A good professional training, in particular, contributes to a considerable extent to the efficiency and continuity of your production.

In order to do justice to your partnership we offer a number of qualification workshops which can be held either in your company or at Andritz Küsters in Krefeld. This way you contribute significantly to your operating and maintenance personnel being well versed with the technology and, if need be, able to cope with operational malfunctions.

Prime Roll S

Theory
1. *Prime* Roll S: design and function
   - dimensions, line force, temperature, drive
   - roll covers
   - start/ stop conditions, interlocks
2. Hydraulic and pneumatic control
   - hydraulic and pressure control
   - system information, operating diagram, control loop
   - possibilities for checking and controlling
3. Auxiliary equipment
   - doctor, rope/ air threading, edge cooling unit
4. Safety devices
5. Error messages, corrective actions, control during production
6. Maintenance: lubrication, lubricants, roll change and roll cleaning

Practical
On site: erection site, construction site, installation of rolls
Andritz Küsters: Technical Centre, roll workshop, test stand

Prime Roll MHV

Theory
1. *Prime* Roll MHV: design and function
   - dimensions, line force, temperature, drive
   - roll coatings
   - start/ stop conditions, interlocks
2. Hydraulics and pneumatics control
   - hydraulic and pressure control
   - system information, operating diagram, control loop
   - possibilities for checking and controlling
3. Auxiliary equipment
   - doctor, rope/ air threading, edge cooling unit
4. Safety devices
5. Error messages, corrective actions, control during production
6. Maintenance: lubrication, lubricants, roll change and roll cleaning
7. Multi Master and PLC (in operator‘s control room)
   - connection hydraulics/ pneumatics PLC Multi Master calender operation
   - start/ stop calender control, interlocks
   - control information set/ actual pressures

Practical
On site: erection site, construction site, installation of rolls
Andritz Küsters: Technical Centre, roll workshop, test stand

Prime Press X

Theory
1. *Prime* Press X: design and function
   - dimensions, line force, temperature, drive, roll covers
   - start/ stop conditions, interlocks
2. Hydraulic and pneumatic control
   - hydraulic and pressure control
   - system information, operating diagram, control loop
   - possibilities for checking and controlling
3. Safety devices
4. Error messages, corrective actions, control during production
5. Maintenance: lubrication, lubricants, roll change and roll cleaning

Practical
On site: erection site, construction site, installation of rolls
Andritz Küsters: Technical Centre, roll workshop, test stand

Prime Cal Soft/ Hard with *Prime* Roll S

Theory
1. Calender information: dimensions, line force, etc.
2. *Prime* Roll S: design and function
   - hydraulic pressure control, roll covers
3. Thermo roll: design and function
   - heating systems, interlocks
4. Safety devices
5. Auxiliary equipment
   - doctor, rope/ air threading, edge cooling unit
6. Hydraulic and pneumatic control
   - system information, operating diagram, control loop
   - possibilities for checking and controlling
7. Error messages, corrective actions, control during production
8. Maintenance: lubrication, lubricants, roll change and roll cleaning

Practical
1. Multi Master + PLC (in operator‘s control room/ Technical Centre Andrizt Küsters)
   - hydraulics/ pneumatics- PLC/ Multi Master
   - start/ stop calender control, interlocks
   - control information set/ actual pressures
2. On site: erection site, installation of rolls
   Andritz Küsters: Technical Centre, roll workshop, test stand

Prime Cal Soft/ Hard with *Prime* Roll MHV

Theory
1. Calender information: dimensions, line force, etc.
2. *Prime* Roll MHV: design and function
   - hydraulic and pressure control, roll covers
3. Thermo roll: design, heating system, interlocks
4. Safety devices
5. Auxiliary equipment
   - doctor, rope/ air threading, edge cooling unit
6. Hydraulic and pneumatic control
   - system information, operating diagram, control loops
   - possibilities for checking and controlling
7. Error messages, corrective actions, control during production
8. Maintenance: lubrication, lubricants, roll change and roll cleaning

Practical

1. Multi Master and PLC
   (in operator‘s control room/ Technical Centre)
   - hydraulics/ pneumatics- PLC/ Multi Master
   - start/ stop calender control, interlocks
   - control information set/ actual pressures
2. On site: erection site, installation of rolls
   Andritz Küsters: Technical Centre,
   roll workshop, test stand

Prime Cal ProSoft

Theory

1. Calender information: dimensions, line force, etc.
2. *Prime* Roll MHV: design, hydraulics, roll covers
3. Thermo roll: design, heating system, interlocks
4. Safety devices
5. Auxiliary equipment
   - doctor, rope/ air threading, edge cooling unit
6. Hydraulic and pneumatic control
   - system information, operating diagram, control loops
   - possibilities for checking and controlling
7. Error messages, corrective actions, control during production
8. Maintenance: lubrication, lubricants, roll change, roll cleaning

Practical

1. Multi Master and PLC (in operator`s control room/ Technical Centre)
   - hydraulics/ pneumatics- PLC/ Multi Master
   - start/ stop calender control, interlocks
   - control information set/ actual pressures
2. On site: erection site, installation of rolls
   Andritz Küsters: Technical Centre,
   roll workshop, test stand

Multi Master Control System

Theory

1. System overview: hardware and links
2. Multi Master
   - operating elements, auxiliary units
   - CD profiling, service functions
3. PLC software: programme and data structure, interface
4. Hardware circuit diagram
   - function groups, terminal diagram, cable list
5. Hardware hydraulic diagram
   - function groups
6. Alarm messages and malfunction search: trend graphic
7. Multi Master with Windows: OPC interface
8. Multi Master upgrade functions
   - upgrade for Siemens PLC S5 or S7
   - upgrade for Allen Bradley PLC 5 or Control Logix
9. Multi Master system integration
   - PC S7 system integration
   - Metso DNA system integration

Would you like to know more about the seminars, organisation or costs?

Michael Thissen and the service team would be glad to help you:

Andritz Küsters GmbH
Michael Thissen
Eduard-Küsters-Strasse 1
47805 Krefeld, Germany
Phone: +49-2151-34-1412
Fax: +49-2151-34-1734
paper-seminare@andritz.com

www.andritz-kuesters.com

www.andritz-kuesters.com

Customer Seminars

We accept the challenge

ANDRITZ KÜSTERS