PAPERMAKING

PROCESS

OVERVIEW
PRODUCTS

WOOD → PULP → PAPER → FINAL PRODUCT
PROCESSES
PRODUCTS AND PROCESSES
PULP MANUFACTURE

WOOD → PULP MANUFACTURE → PULP → PAPER MANUFACTURE → PAPER → CONVERTING AND TRANSFORMATION → FINAL PRODUCT
PULPING SUBPROCESS

WOOD → PULP MANUFACTURE → PULP

- PULPWOOD HANDLING
- PULPING (MECHANICAL, CHEMICAL, SEMICHEMICAL)
- PULP FINISHING
- BLEACHING
PAPER SUBPROCESS

PULP \rightarrow \text{PAPER MANUFACTURE} \rightarrow \text{PAPER}

\text{STOCK PREPARATION} \rightarrow \text{PAPER MACHINE} \rightarrow \text{PAPER FINISHING}
CONVERTING AND TRANSFORMING SUBPROCESS
INTEGRATED PROCESS
THANKS FOR YOUR ATTENTION

Escuela del Papel – Paper Eskola
www.escuela-papel.com
VOCABULARY-A-C

- Aquarelle board
- Banknote papers
- Bark cloth
- Basis weight
- Belt filter press
- Biological treatment
- Board grades
- Brightness
- Bubble generation, flotation
- Bursting strength
- Calendering Board
- Caliper

- Cellulose
- Centrifugal cleaning
- Chemical additives
- Chlorination/bleaching
- Closed water circuit
- Coarse screening
- Coating kitchen
- Colored pigments/coloring materials
- Cross/machine direction control
VOCABULARY - D-F

- Deflaking
- Deinking sludges
- Detrimental substances
- Disk filters/ thickener
- Disposal/ waste handling
- Dissolved air flotation
- Drainage aids
- Drum pulper
- Dryer fabrics/ hood
- Dry/ wet strength resins
- Dyeing processes
- Effluents treatment
- Feeding
- Fiber stock preparation
- Fillers particle charge/ size distribution
- Film coating
- Filter paper
- Flexographic printing
- Flocculants
- Flotation
- Fluorescent whitening agents
- Foam removal
- Foils
- Forming section
- Fourdrinier wire section
- Fresh water
VOCABULARY - G-O

- Gloss
- Glueability
- Ground calcium carbonate
- Gypsum
- High / low consistency pulper
- Hygienic papers
- Hygroscopicity
- Industrialization
- Kaolin clays
- Machine direction control
- Manufacturing process
- Mechanical pulp
- Microbiological slime
- Micro- turbulence
- Mineral fillers
- Mixing
- Moisture profile
- Newsprint paper grades
- Non-fiber raw material
- Office papers
- Offset printing
- Opacity
- Optical brightening agents
- Oxigen bleaching
VOCABULARY - P-Q

- Packaging paper/material
- Preservation
- Paper production by countries
- Primary/secondary fiber preparation
- Process flow sheet
- Papersave process
- Papyrus
- Papermaking spread
- Perforated rolls
- Peroxide bleaching
- Photographic base paper
- Pigments dispersion
- Pitch control additives

- Pollution, wastewater
- Polymeric sizing agents
- Polyurethane roll covers
- Pope reel
- Porosity
- Press felts/section/roll
- Pressure distribution
- Printability
- Printing paper/processes/properties Process engineering
- Quality control system
- Raw materials
- Recycled paper
- Recycling paper
- Refining
- Rejects
- Repulping additives
- Retention and drainage aids
- Rotogravure printing
- Rotor/ stator
- Roughness
- Rubber roll covers
- Reel slitting
- Screening
- Screw presses
- Sheet forming concept
- Shoe presses
- Silicone base paper

- Size press
- Sizing resin-based agents
- Slimicides
- Sludge processes
- Smoothness testing
- Soft tissue production
- Solid content/ removal/ wastes
- Specialty papers
- Starch cooking, modification
- Steam heated cylinders
- Strenght
- Supply systems
- Surface coloring/ sizing/ properties
- Suspended solids removal
- Synthetic latex binders
VOCABULARY-T

- Talc
- Tank
- Tear resistance
- Technical paper grades
- Tensile strenght
- Thermal coating
- Through air drying
- Tissue paper grades
- Titanium dioxide
- Transfer belts
- Transparency
- Turn-up system
- Twin wire presses
VOCABULARY - V-Z

- Vacuum treatment/ deaeration
- Viscosity
- Washing
- Wastewater characterization
- Water circuits/ loops
- Water retention
- Web separation device
- Whiteness

- Wood containing/ free papers
- Wrapping machines/ material
- Yankee driers
- Yellowing paper
- Zero effluent system