



Machineman Development Programme - 2011

A modular development programme aimed at production and engineering personnel in the UK papermaking industry.

Benefits

In today's papermaking industry people are expected to operate and optimise their processes after less training and fewer operational hours.

Participants and companies will benefit from a deeper understanding of the science and technology of papermaking leading to greater efficiency, improved quality awareness and cost control. Critically the participants will appreciate the impact of cause and effect on their processes and be able to troubleshoot with greater competence and confidence.

Programme

Designed to incorporate the syllabus of the original City & Guilds Papermaking qualification, Paper & Board Making N/SVQs and, more recently, the Certificates in Paper Technology; successful completion of the modules will provide underpinning knowledge evidence for selected N/SVQs.

Perhaps now is the time to invest in some offline learning and skills development to close critical gaps, which will otherwise only show up in times of need.

“The best time to build an ark is when the sun is shining”.

Machineman Development Programme

Programme

Week 1: The global papermaking industry; fibrous and non-fibrous raw materials; stock preparation; wet-end chemistry; team working; communications; paper properties; papermachine simulator; mill visit.

Week 2: Approach flow; forming; pressing; papermaking calculations, mill visits.

Week 3: Drying; continuous improvement; structured problem solving; engineering services; mill visit; convertor visit

Week 4: safe papermaking; process control; finishing & conversion; effluent treatment; case study (Company X); presenting information; end test.

The modules included in each specific week may be subject to change but the overall programme will contain all the topics stated. Additional elements may be added to suit the particular needs of participants.

For further details about the programme content, please contact tw@twapd.com

Trainers

Delivered by recognised industry trainers and augmented by functional specialists from local mills and allied industries, e.g. chemical suppliers, clothing suppliers, etc.

Duration of Course, Date & Venue

Each of the four weeks is a five-day course; dates/venues provided upon request.

Investment

Your investment for each week is £650 per participant, plus VAT, and is inclusive of comprehensive course materials.

Where overnight accommodation is required then companies are required to organise this for their own people and settle any bills accordingly.

Delegate Numbers

Numbers are strictly limited to 12 persons to foster an optimal learning environment.

Booking

For further information and to book places, please contact **TWA People Development Ltd** on 01227 379920, 07834 712092, tw@twapd.com

Programme Content

Introduction to the UK paper, tissue and board industry

- Structure, Mills, Technology, Volume, Grades

Raw Materials

- Fibrous
 - o virgin & recovered
- Non-fibrous
- Water

Wet End Chemistry

- Chemical bonding & chemical groups
- Process Aids
- Functional Aids

Process Control

- Sensors
- Open/closed loop systems

Stock Preparation

- Equipment
- Storage
- Deflaking
- Dispersing
- Water circuits
- Refining
- Optimisation

Approach Flow

- Screening and cleaning
- Consistency
- Deaeration
- Optimisation

Papermachine Wet End

- Forming - Paper, Tissue, Board
- Dewatering
- Clothing
- Optimisation

Pressing

- Construction
- Clothing
- Optimisation

Drying

- Construction
- Mass transfer
- Heat transfer
- Pocket ventilation
- Clothing
- Surface modification
- Optimisation

Finishing & Conversion

- Winding
- Conversion
 - o Embossing
 - o Laminating
 - o Sheeting
- Packing

Effluent Treatment

Mill Services

- Power and steam
- Vacuum
- Air
- Water
- Lubrication

Quality Assurance

Safe Papermaking

Communications

Team Working

Introduction to Continuous Improvement

Structured Problem Solving