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## Agfa Graphics

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### ANAPURNA M & Wasatch Key Operator Training

(Trainee required checking all topics)

1. Safety First ( )
  - a. UV Inks
    - i. UV Inks (and waste) are chemicals, when handling the ink, wear protective gloves to protect your skin. Also wear protective glasses to avoid splashes
  - b. UV Light
    - i. Do not look directly into the UV Light when printing
    - ii. Don't expose your skin directly to UV light
    - iii. If you need to look at the direction of the light, wear protective glasses
  - c. Ozone
    - i. Make sure printing room exhausts are working and lead to the outside air
  - d. Anapurna Engine
    - i. Know the Emergency 'Stop' buttons
    - ii. Make sure that the 'Safety Sensors' are working (turned 'ON')  
(While at OFFLINE Mode, Press F4 & then F2)
    - iii. Before printing, make sure no one is around the engine
    - iv. After printing, always put the engine to 'OFF LINE'
2. Anapurna Inks, Cleaning Solution & Waste ( )
  - a. Storage of inks
    - i. Ideal between 4 & 10 degrees Celsius. No more than 25 degrees at any time
  - b. Shelf Life of inks
  - c. Use
    - i. Take care when filling the main ink tank / cleaning tank
    - ii. Keep waste separate from the ink bottles
  - d. Dispose off waste as per local council regulations
  - e. Never mix solvent waste or aqueous waste with UV waste (as per local council regulations)
3. Environment ( )
  - a. Dust Free
  - b. Ideal Room Temperature : 22 degrees Celsius (Range between 18 – 25 degrees C)
  - c. Ideal Humidity : 50 % (Range between 40% - 60 % relative humidity)
4. Anapurna M Component Overview ( )
  - a. Terminologies used (Home Side, Purge side or Capping side etc)
  - b. Anapurna Shuttle (carriage) Layout
    - i. Print Heads, sub tanks etc
    - ii. 2 way ink valves / solution valve
    - iii. UV Lamps
  - c. Purge Button (Ink), Flushing Button (Cleaning Solution)
  - d. Negative Vacuum 'Gauge' & 'Digital Indicator'
  - e. Ink Supply System
5. Anapurna M – Start Up Sequence ( )
  - a. Compressor & Drier (to get compressed dry air)
  - b. Exhaust (in the room)
  - c. Main Switch (Power), Circuit Breakers (if applicable), Power switch on Anapurna Engine
  - d. Emergency Buttons on Anapurna Engine
  - e. Power 'ON' (Start Button on Anapurna Engine)

6. Making Anapurna Ready for printing ( )
- a. Print Head Test (Prime : Menu F1 on Control Panel)
  - b. Roll to roll print
    - i. Media Loading
    - ii. Vacuum Settings on the bed
    - iii. Set Gap (Head Height Calibration in regard to the media thickness)
    - iv. Set Margins (Parameters)
    - v. UV Lamps (Power settings: Full / Half and Mode settings: Normal / Both)
  - c. Rigid media printing
    - i. Registration Bar
    - ii. Vacuum Settings on the bed
    - iii. Set Gap (Head Height Calibration)
    - iv. Left & Top Margins
    - v. Borderless Printing
    - vi. Dual Board Printing
    - vii. Input / output Support Tables
    - viii. UV Lamps (Power settings: Full / Half and Mode settings: Normal / Both)
  - d. Heater Settings  
(How to change settings on the digital controls)
    - i. Sub Ink Tanks
    - ii. Head Base
  - e. Negative Pressure Settings
  - f. Print Quality
    - i. Horizontal Alignment
    - ii. Bi Direction Alignment
    - iii. Step Size (Feed)
    - iv. Carriage Speed
  - g. Printing Artefacts
    - i. Gloss Banding
    - ii. Peppering
    - iii. Pooling
    - iv. Step Banding / Nozzle-missing banding
7. Print Head Purging / Cleaning ( )  
(Function of 2 way valve)
- a. 'Quick' Purge if 'Prime Test' (nozzle test) not good
  - b. 'Long' Purge
  - c. Head 'Bleeding' (drop the negative pressure down to -.010)
  - d. Head Cleaning using Cleaning Solution
  - e. Weekend / Long Break engine preparation
8. Anapurna Control Panel ( )
- a. 'ON Line' & 'OFF Line'
  - b. Local & Host
  - c. Head Gap (Calib)
  - d. Parameters: Left, Top & Right Margins + Null Point (Y or N)
  - e. Nozzle Check (Prime)
  - f. 'Pause' function
  - g. Cancelling a print
9. Preventive Maintenance (operator) ( )
- a. Daily
  - b. Weekly
  - c. Alignment of Conveyor (Media) Belt
10. What can go wrong!!!! ( )
- a. Air in the Ink Filter (always make sure enough ink in the main tanks)
  - b. Light colours in Dark colour tanks
  - c. Check Over Flow (sub air) tank (part of weekly maintenance)
  - d. Keep an eye on Waste Tank (part of weekly maintenance)
  - e. Printing on the Conveyor Belt (specially when printing borderless) – resulting in poor vacuum
  - f. Static on Media (specially rigid media)
  - g. Head Height!!!

11. Advanced Scheduled Maintenance ( )
- Adjustment of conveyor belt
  - Replacement of conveyor belt (service engineer)
  - Cleaning the Feed Table (service engineer)
  - UV Lamp Replacement (operator)
  - Cleaning of Crystal Glass (operator)
  - Calibration (Horizontal, Bi-dir, Feed Adjust)
  - Cleaning / Lubricating the Carriage Rail & Greasing the Carriage Bearings

12. Consumables Required ( )
- Inks
  - Cleaning Solution
  - Lint Free Cloth
  - Part #'s
  - Recommended Media

### Wasatch Operations

1. Rip Station ( )
- Do not load any design software (DTP applications)
  - Never download anything from the internet
  - Make sure the network card is 100/1000 Mbps
  - Make sure of a high speed hub or switch (if printing through hub / switch)  
>>>Recommended to have 2 network cards in the CPU; one for the office network & the other for the Anapurna engine (cross over network cable)
  - How to connect Wasatch with Anapurna
2. Wasatch Set Up ( )
- Printing Modes (4 pass, 8 pass, bi-dir, uni-dir)
  - Imaging Configuration
  - Media Width
  - Color Related Info
    - Color Curves
    - Color Replacement
    - Do not touch Ink Limits
    - Do not over write Agfa Profiles / Imaging configurations (keep a back-up copy)
3. Ripping & Printing ( )
- Supported File formats
  - Opening a file
  - File preparation: size, scale, crop, mirror, rotate, tiling
  - Selection of correct Imaging Configuration (print mode)
  - Sending to Rip Queue (Or Rip & Print)
  - Print Strategy
    - Immediate Printing
    - Manual Layout
  - Hot folder set-up
4. Wasatch Exercises ( )
5. Have you received the Operator's Manual + other operational documents ( )
6. Have you received the Anapurna M Ink MSDS ( )
7. Have you printed samples on Anapurna engine using flexible & rigid media ( )
8. Are you comfortable (YES) (NO)
9. What other information do you need