
Agfa Graphics

ANAPURNA Mw & 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')
 - 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
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 Mw Component Overview ()
 - a. Terminologies used (Home Side, Capping side etc etc)
 - b. Anapurna Shuttle (carriage) Layout
 - i. Print Heads, sub tanks etc
 - ii. 2 way ink valves / solution valve (For color & white ink)
 - iii. UV Lamps
 - c. Purge Button (Ink), Flushing Button (Cleaning Solution)
 - d. Negative Vacuum 'Gauge' & 'Digital Indicator' (For color & white ink)
 - e. Ink Supply System (Main Ink tanks, Ink pumps, Ink Filters, Ink lines, Sub ink tanks, 2 way ink valves and Print heads)
5. Anapurna Mw – 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 Mw Ready for printing ()
 - a. Print Head Test (Prime Test from Control Panel)
 - b. Roll to roll print
 - i. Media Loading
 - ii. Vacuum Settings on the bed (Vacuum Control)
 - iii. Head Gap (Head Height Calibration in regard to the media thickness)
 - iv. Margins (Parameters)
 - v. UV Lamps (Power settings: Full / Half and Mode settings: Normal / Both / Reverse)
 - c. Rigid media printing
 - i. Media Set Bar
 - ii. Vacuum Settings on the bed (Vacuum Control)
 - iii. Head Gap (Head Height Calibration)
 - iv. Left & Top Margins
 - v. Borderless Printing / Dual Board Printing
 - vi. Input / output Support Tables
 - vii. UV Lamps (Power settings: Full / Half and Mode settings: Normal / Both/ Reverse)
 - d. Printing with White (Have a look at the document 'Creative with White Ink')
 - e. Heater Settings
 - i. Sub Ink Tanks
 - ii. Head Base
 - f. Vacuum Control
 - i. How to change settings
 - g. Negative Pressure Settings
 - h. Print Quality
 - i. Horizontal Alignment
 - ii. Bi Direction Alignment
 - iii. Step Size (Feed)
 - iv. Carriage Speed
 - i. Printing Artefacts
 - i. Gloss Banding
 - ii. Peppering (solution in the ink)
 - iii. Pooling (due to less vacuum, static or air in the ink system)
 - iv. Step Banding / Nozzle-missing banding
 - j. White Print head maintenance
 - k. Anti Static Bar
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. White ink in Solution Tank or 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 (color + white)
 - Cleaning Solution
 - Lint Free Cloth
 - Part #'s
 - Recommended Media

Wasatch & Agfa Rip Operations

- Rip Station ()
 - Do not load any design software (DTP applications)
 - Never download anything from the internet (updates 'OFF')
 - 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 (using AgfaRip)
 - Defrag the CPU every week
 - Clear Rip queues & Print queues
- Wasatch Set Up ()
 - Printing Modes (4 pass, 8 pass, bi-dir, uni-dir)
 - Imaging Configuration
 - Media Width
 - Color Related Info
 - Color Correction Curves
 - Spot Color Replacement
 - Color Gamut view
 - Do not touch Ink Limits, do not over write Agfa Profiles
- Ripping & Printing ()
 - Supported File formats
 - Opening a file
 - File preparation: size, scale, crop, mirror, rotate, tiling
 - Selection of correct Imaging Configuration (print mode)
 - Hot folder set up (if applicable & required)
 - Print Strategy
 - Rip & Print (to the folder) from Wasatch
 - Print to Anapurna Mw using AGFARIP
 - Agfa Rip set up
- Wasatch Exercises ()
- Have you received the Operator's Manual + other operational documents ()
- Have you received the Anapurna Mw Ink MSDS ()
- Have you printed samples on Anapurna engine using flexible & rigid media ()
- Are you comfortable (YES) (NO)
- What other information do you need