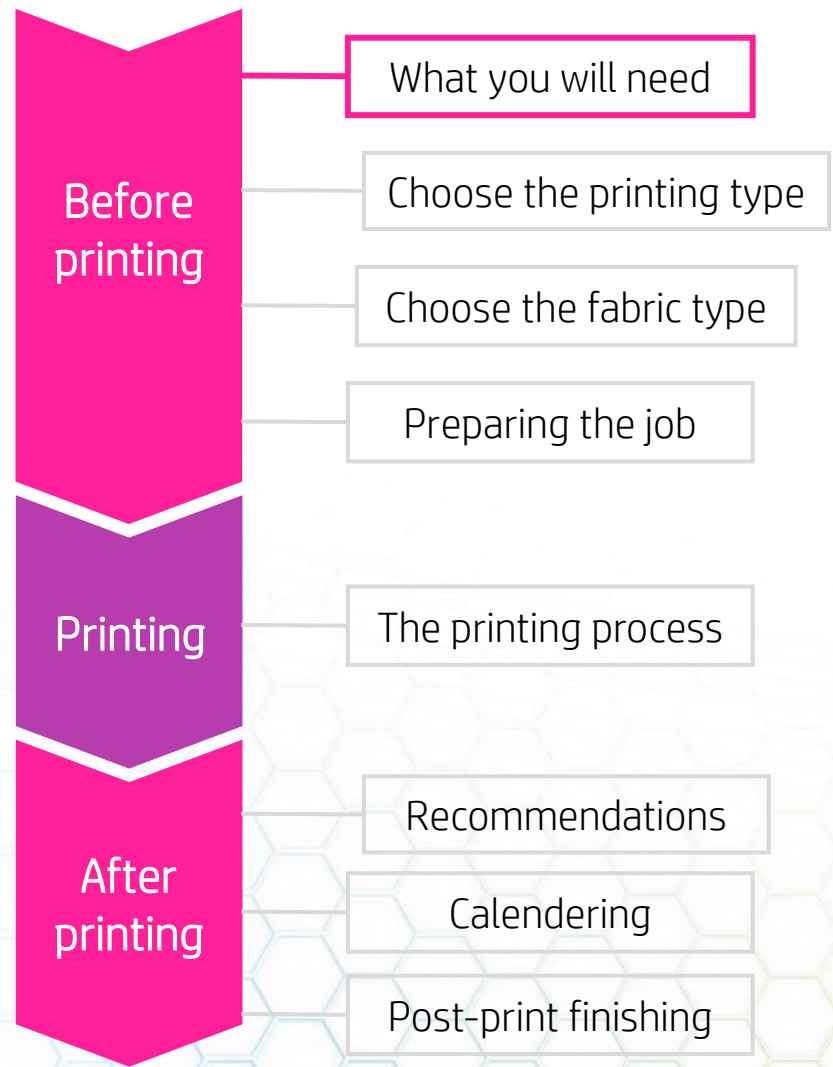




How to do Flag Applications with the HP Stitch S Printer Series



What you will need



Textile



Tissue Paper



Transfer Paper (optional)



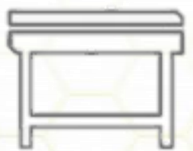
Cutting device



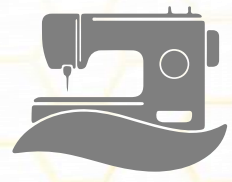
SW tools (RIP, edition, etc.)



Printer



Calender

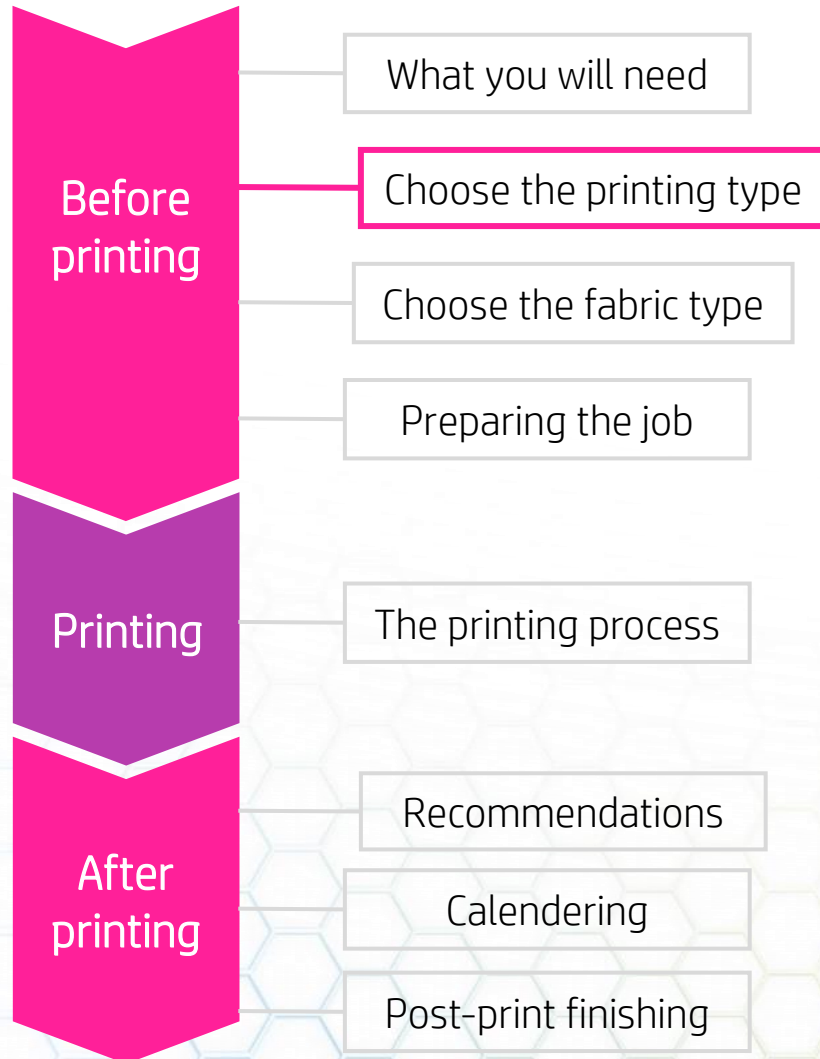


Sewing machine (optional)

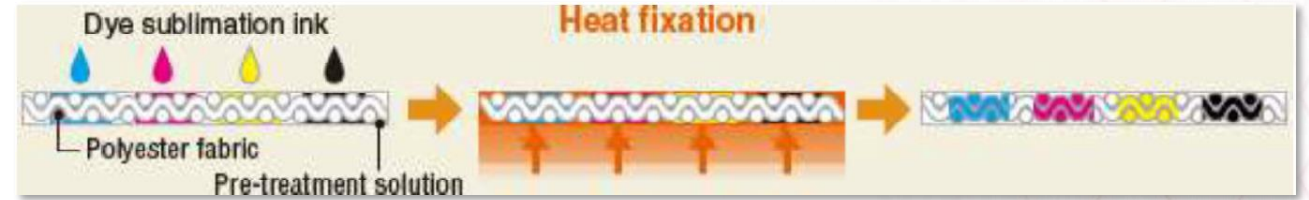
We haven't invented dye-sub | We reinvented it
SAY HELLO TO HP STITCH



Choose the printing type

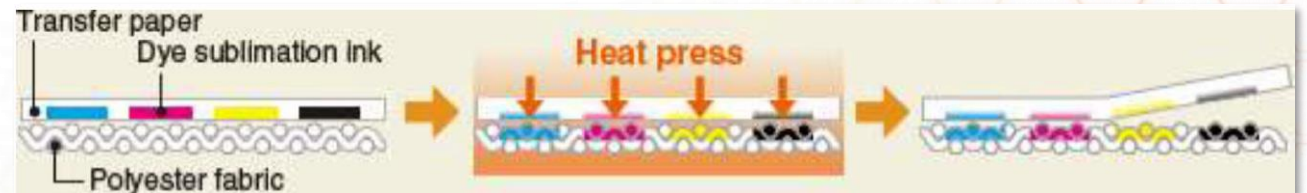


DTF – Direct to Fabric (commonly used)



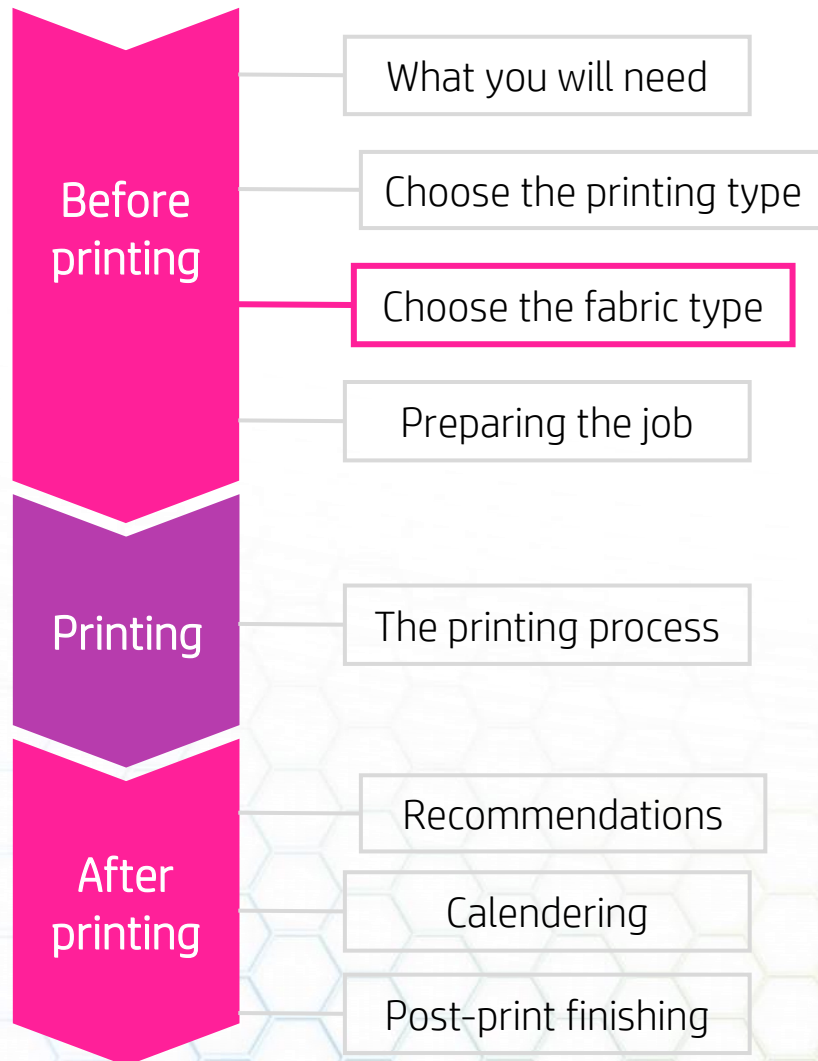
- ✓ Ink coverage – Better saturation with the same amount of ink (or even less)
- ✓ Materials – DTF only requires one media (the transfer paper is not required)

Transfer – Using printed transfer paper (rarely used)



- ✗ Print through – Although the application can also be printed with this printing type, the recommendation is to use Direct Printing, because using transfer paper requires more dwell time during the calendering process to achieve a similar level of print through, compared to direct printing.

Choose the fabric type



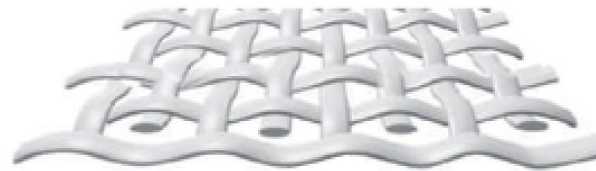
Coated



There are **NO coated flags** because:

- The fabric would gain too much stiffness.
- A flag must be porous to wave with the wind.

Treated



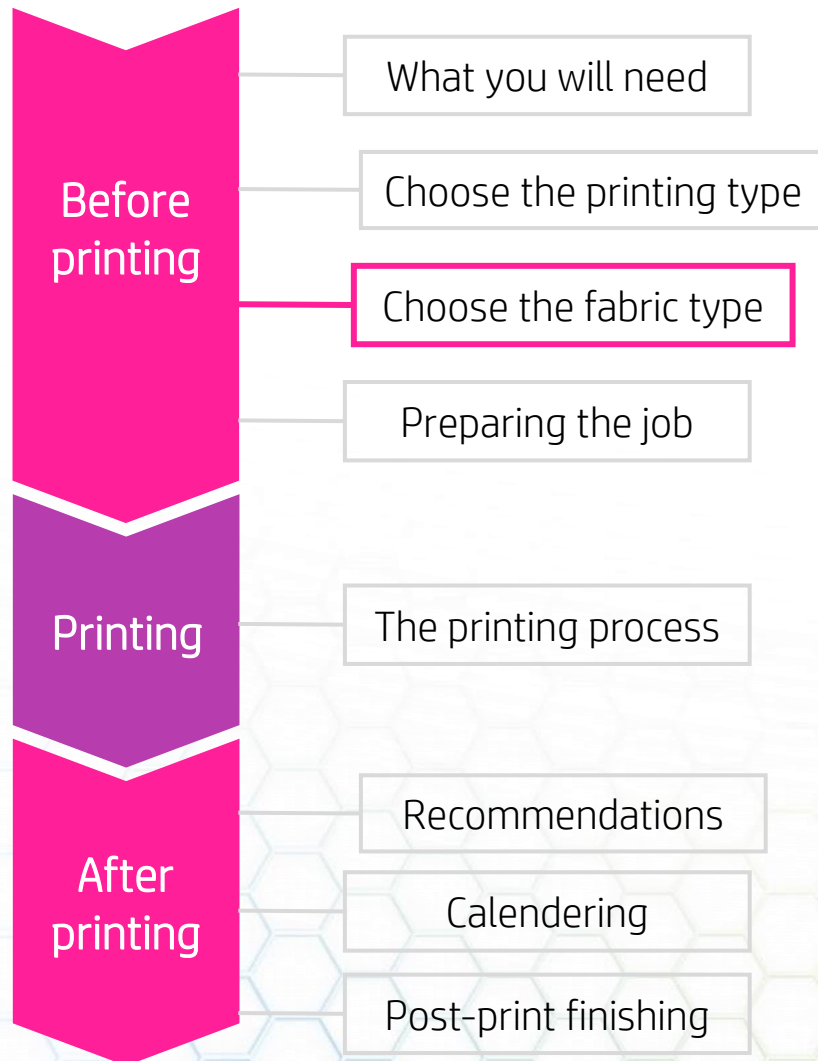
All of these are treated to improve image quality when printing on them directly. The treatment is a dip coating that keeps the original touch and feel.

The manufacturer may or may not include a flame-retardant component at the same time as the previous treatment.

The use of an ink collector is mandatory to avoid staining the platen of the printer and damaging the vacuum system.

NOTE: Find the validated materials here: <https://www.printos.com/ml/#/homeMediaLocator>
The database is continuously being updated with more media.

Choose the fabric type



The list of validated materials is dynamic. Several examples of good performers are:

Treated

- Aberdeen 5384 Mesh
- Aurich 3158FRM GeoMesh
- Aurich 350X FlagSuperb
- Berger G-Flag 117 FR
- Georg and Otto 6043
- Georg and Otto 6050 KGFS
- Georg and Otto 6144 GFS

NOTE: See the post-processing recommendations that can be found in this document to get the best results.

Preparing the job



Make your decision based on the selected printing type

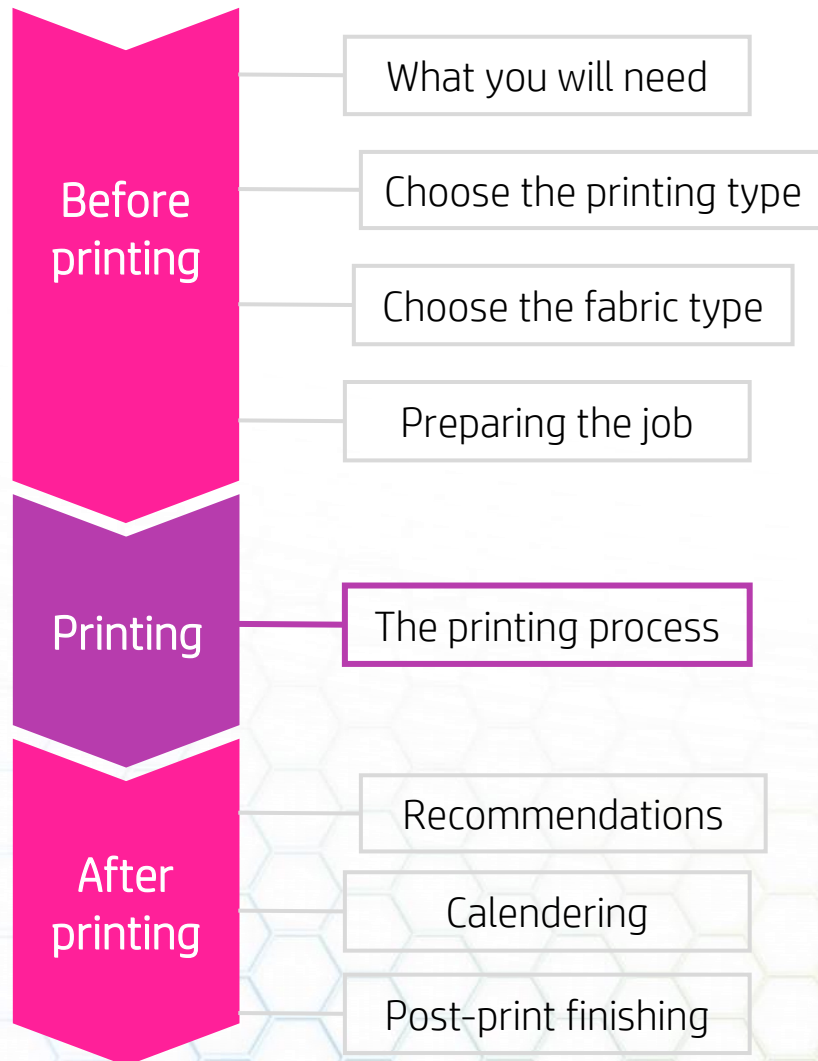


Normal mode for Direct to Fabric



Mirror mode for Transfer printing

The printing process



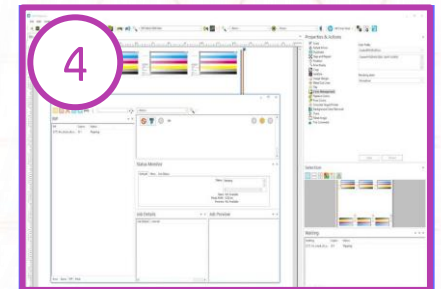
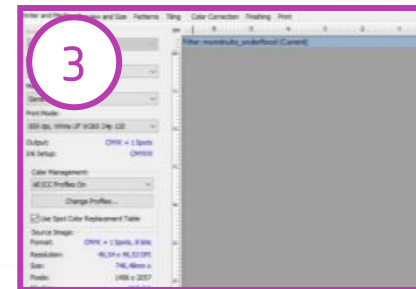
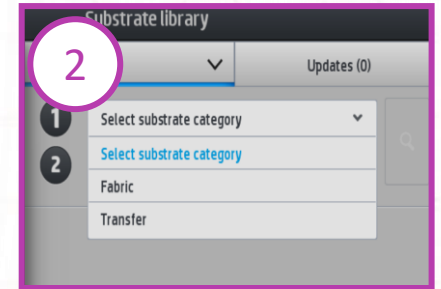
1. Load the substrate on the printer as **Direct to Fabric > Generic Bleed Through Textile** in the case of Direct to Fabric, or **Transfer Paper > Generic 70 to 110 gsm paper** in the case of Transfer printing.

2. Follow the loading process. As a recommendation, click the **Media Loading Accessory** checkbox.

3. Select the right media preset – by using a Generic or a recommended profile from the front panel or the **Media Locator** webpage* (filtering by application and selecting **Flags**) – then select the preferred print mode from the offered ones and send.

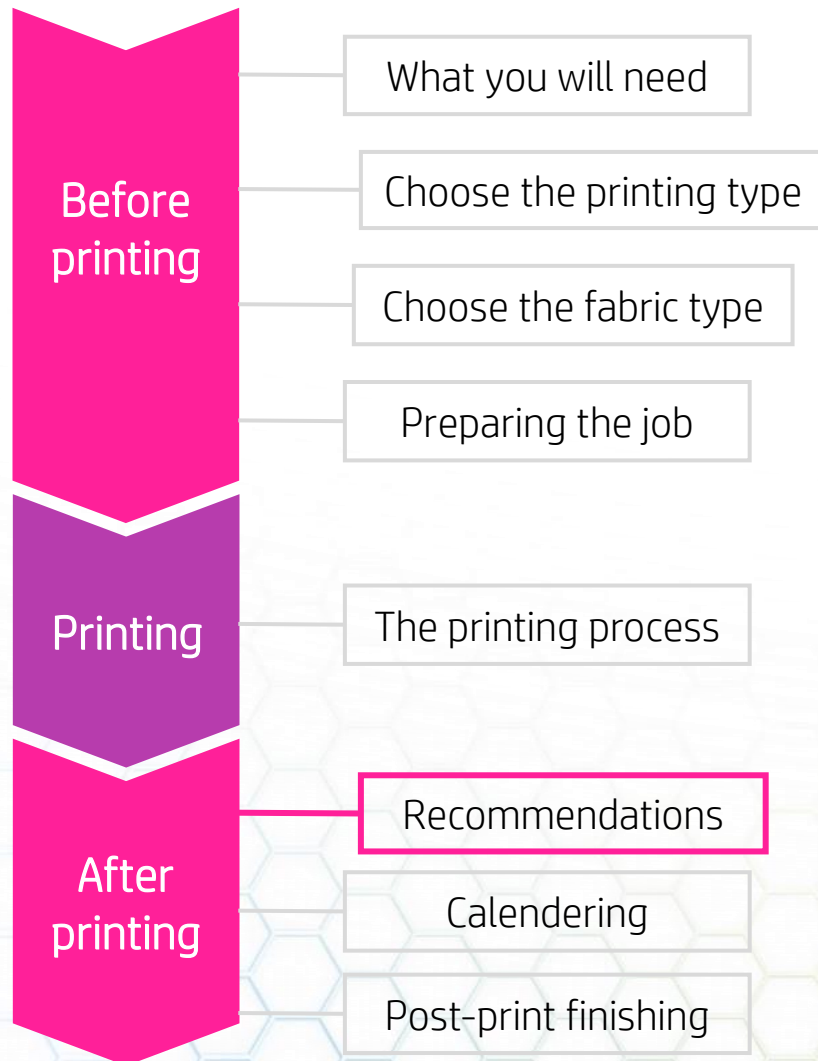
4. Prepare the job, number of copies, size, nesting several images...

* Find the validated materials here: <https://www.printos.com/ml/#/homeMediaLocator>
The database is continuously being updated with more media.



Press print

Recommendations after printing



Time from printing to the sublimation process



The sooner printed samples are sublimated the better, otherwise there is the risk of ink migration because the ink is not fixed yet.

Handling



In the case of direct printing, it's very important to handle printed rolls with care during transportation to the calender. Minimal pressure should be applied to the printed materials, so it is preferable to hold the rolls by the edges (inside the carton cores).

Ink collector



Depending on the porosity of the material, the ink collector foam will require replacement more often, but the recommendation is to change it every 100 meters. Ideally, to avoid staining the material during the loading/unloading process, the recommendation is to use 100m rolls and replace the foam with every new roll.

Calender settings

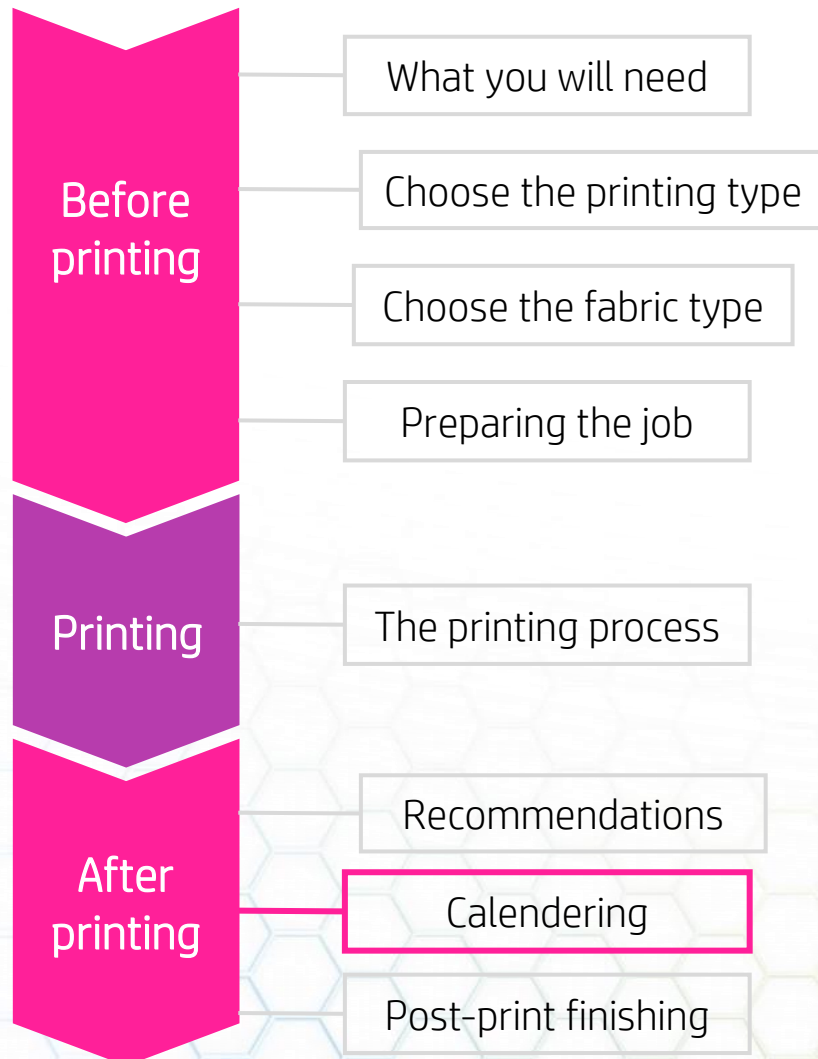


In order to get the best print through and to avoid damaging the polyester, the recommended range of temperature is 200-205°C and 50-60 seconds of dwell time.



Calendering process

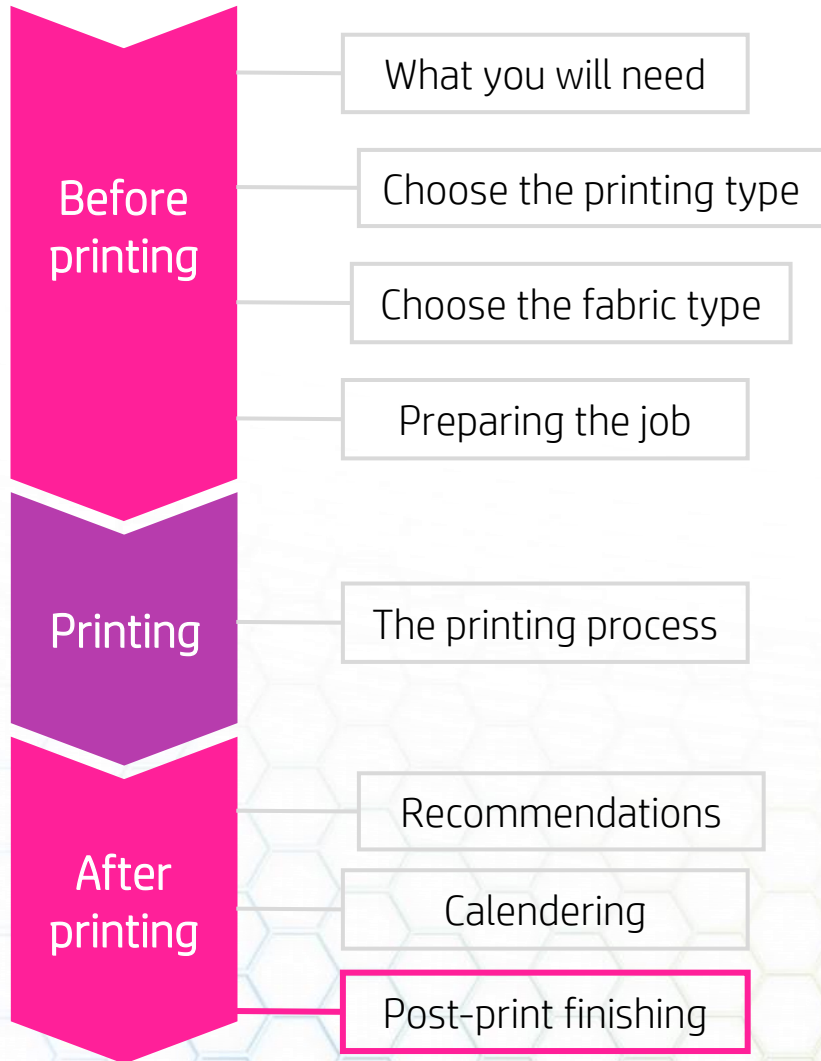
DTF – Direct to Fabric



We haven't invented dye-sub | We reinvented it
SAY HELLO TO HP STITCH



Post-print finishing



Finishing process

Different final applications and finishing examples



Beach Flag



Flag tape

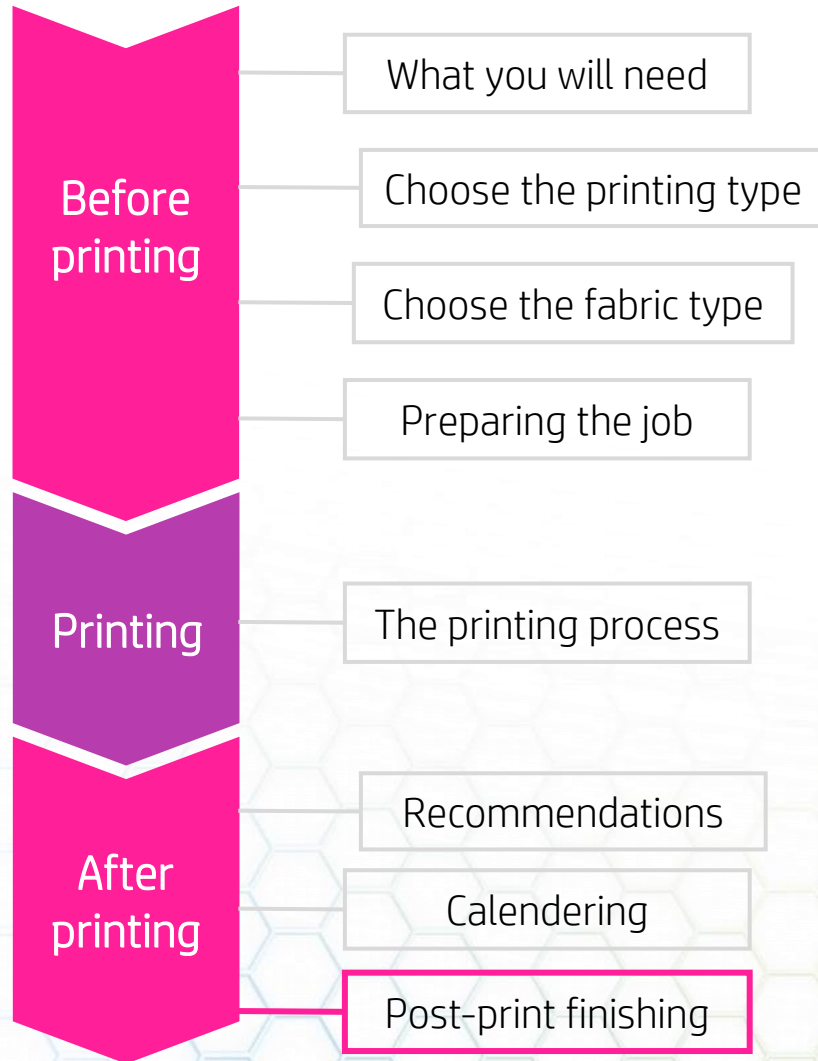


One pole Flag



Grommets

Post-print finishing



Finishing - Partners

Cutting and/or sewing devices



Calenders and/or heat fixation units

