How to do wallcoverings with HP Latex 2700 and HP Latex 2700 W Printer Series
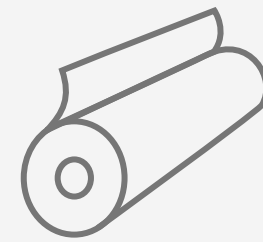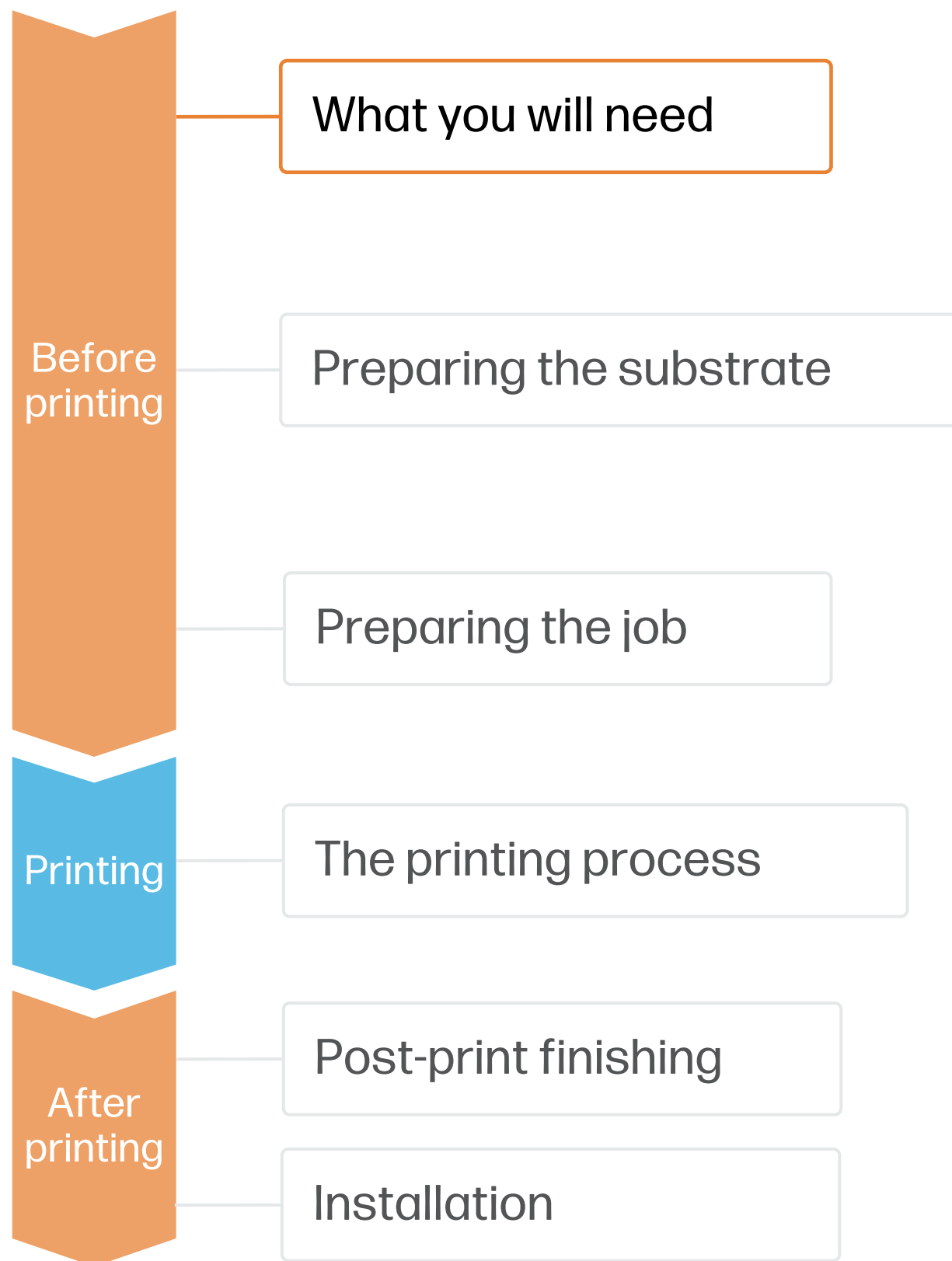
This document will explain how to work on different types of wallcovering substrates, including lamination and installation.

A deep dive training about **HP Latex 2700/2700 W Printer series – Wallcoverings** are available in the Learn App from your PrintOS account.
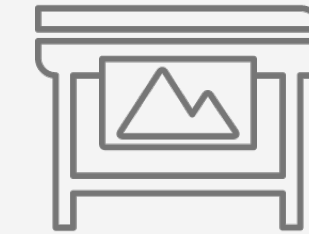
How to do wallcoverings

What you will need

Before printing
- What you will need
- Preparing the substrate
- Preparing the job

Printing
- The printing process

After printing
- Post-print finishing
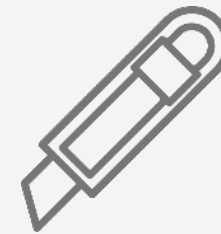- Installation

Wallcovering substrates

SW tools
(RIP, Adobe tools, etc.)

Printer
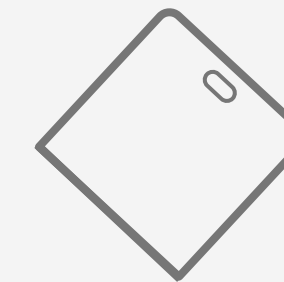

Cutting device

Precision ruler
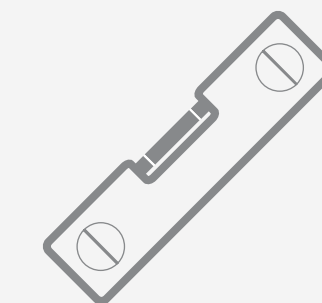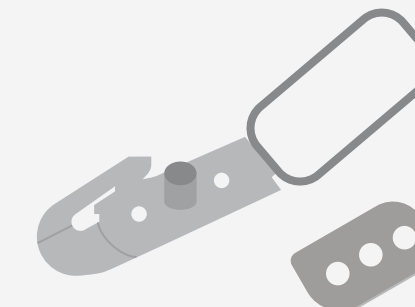

Adhesive paste
(optional)

Water + sponge

Smoothing plastic spatula or brush

Level

Seam roller
(optional)

Double-cutter
(optional)

How to do wallcoverings

Preparing the substrate

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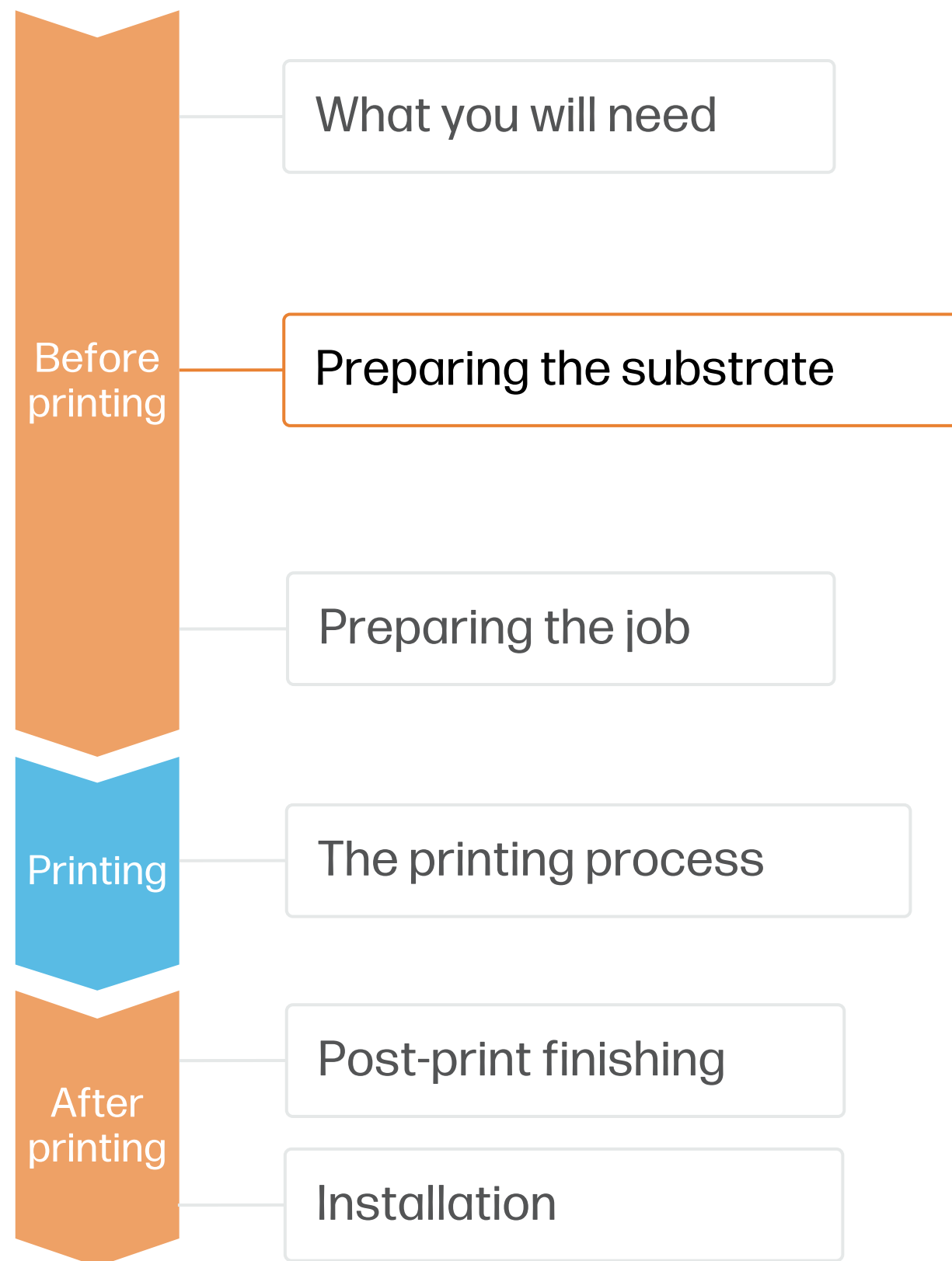
1. Choose the right substrate

Make your decision based on your needs

- Firstly, understand the requirements of your application, whether it is **residential** or **commercial**, and the usage (room, kitchen, office).

- There are different types of wallcovering substrates based on their construction:

a) Base material:

Type56	Features	Adhesive Application
Paper	• Most economic • Dimensionally instable with humidity and water	• * Apply paste to paper
Non-woven	• Highly strippable • Dimensionally stable when wet	• * Apply paste to paper, or • * apply paste to wall
Fabric	• Highly strippable • Dimensionally stable when wet	

📝 NOTE: * Some paper or non-woven substrates might come **pre-pasted**, in which case soaking the substrate in water or wetting the wall with water are the ways to activate the adhesive.

b) Front (decorative) surface:

Type	Features	Usage
Uncoated	Soft touch Low degree of washability	Residential use. Not recommended for kitchens or bathrooms.
PVC-free coated	High degree of washability Scrubbable	For residential or contract segments.
Vinyl	High degree of washability Scrubbable	Most common in contract segments. Frequently used in high traffic areas. Suitable for kitchens and bathrooms.
Textile	High value-added	For residential or contract segments.

Preparing the substrate

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2. Wallcovering characteristics & standards

A. Cleanability terms (EN 235)

Spongeable	Washable	Extra-washable	Scrubbable	Extra-scrubbable

B. Application terms (EN 235)

Paste the paper	Paste the wall	Soak pre-pasted paper

C. Most common standards that apply to wallcoverings

Region	Classification/ Specification	Fire resistance	Chemical emissions	Certifications
EU	• EN15102:2007 • EN 12956:1999 • EN 233:2016	• EN13501-1 • DIN 4102-1 • NFP 92-501 • BS 476	• EN 12149:1998	
USA	• W101-2013 • ASTM F793	• ASTM E 84 • UL 723		

📝 NOTE: For more information on wallcovering definitions and standards checking, see the following links:
IGI Wallcoverings; Wallcoverings Association

How to do wallcoverings

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3. Substrate presets

- Check that the material you are going to use has its own substrate preset:

  a) On the **web**, in the HP PrintOS Media Locator: www.printos.com/ml/#/medialocator

  b) On the **web**, from the substrate vendor's or RIP vendor's websites

- Download and install.

📝NOTE: If you cannot find the substrate presets, you can always use the **Generic Coated Paper & Wallcovering** already installed in your printer. If you need to fine-tune some settings, clone the existing generic preset and modify it, or create a new one with the **Add new substrate** function on the front panel.

💡 TIP: Learn how to customize your profile by enrolling on the available trainings HP Latex 2700/2700 W Printer series. Basic or Advanced certifications

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How to do wallcoverings

Preparing the job
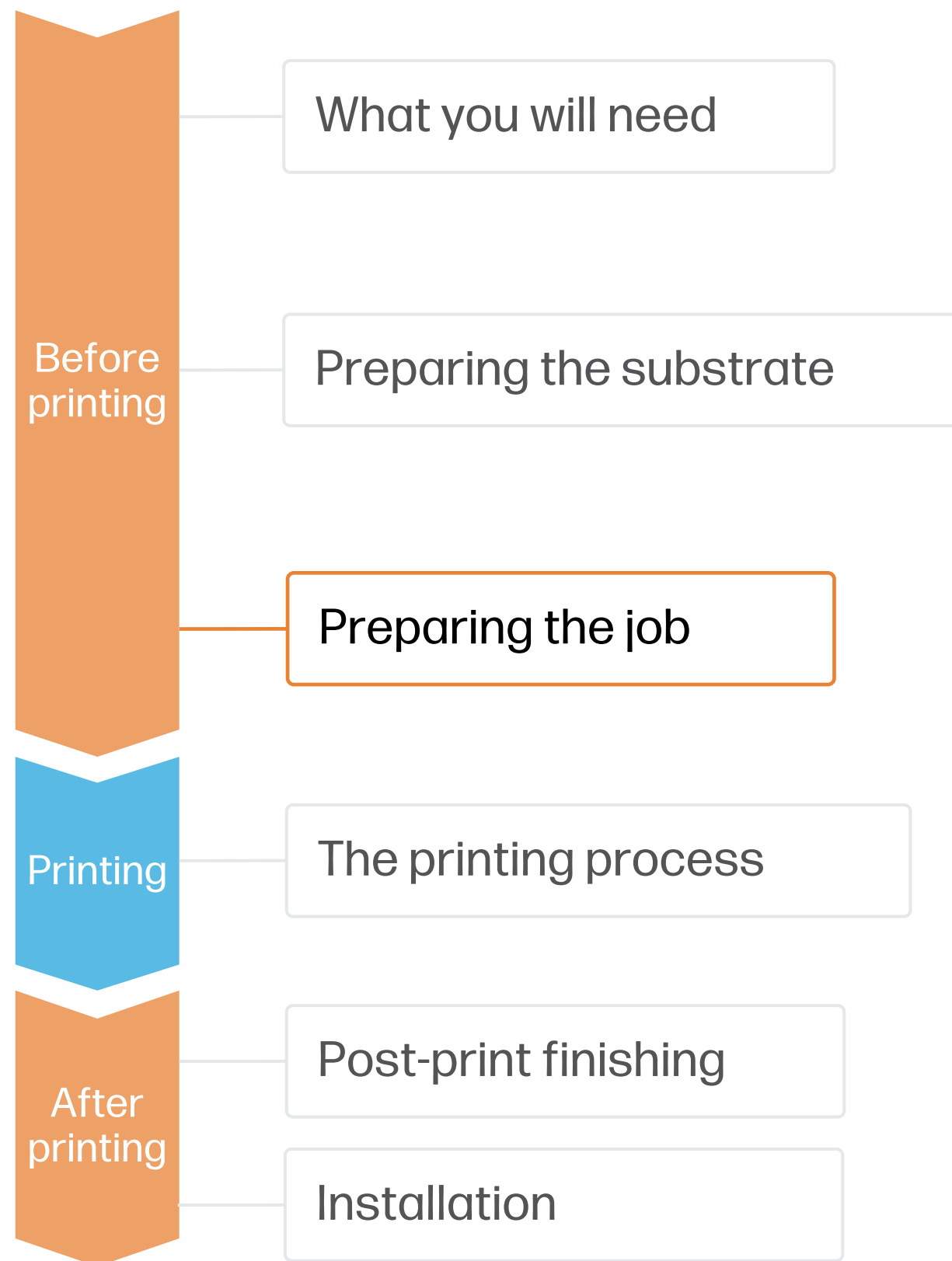
## 1. Software for designing and editing

Tools such as Adobe Illustrator, Photoshop, and InDesign help you design and edit jobs and adapt them to your needs.

Make your decision based on your needs

2. RIP processes

ONYX, and CALDERA RIPs have been certified for HP Latex 2700/2700 W Printers series. All these rips have specific options for wallcovering job editing.
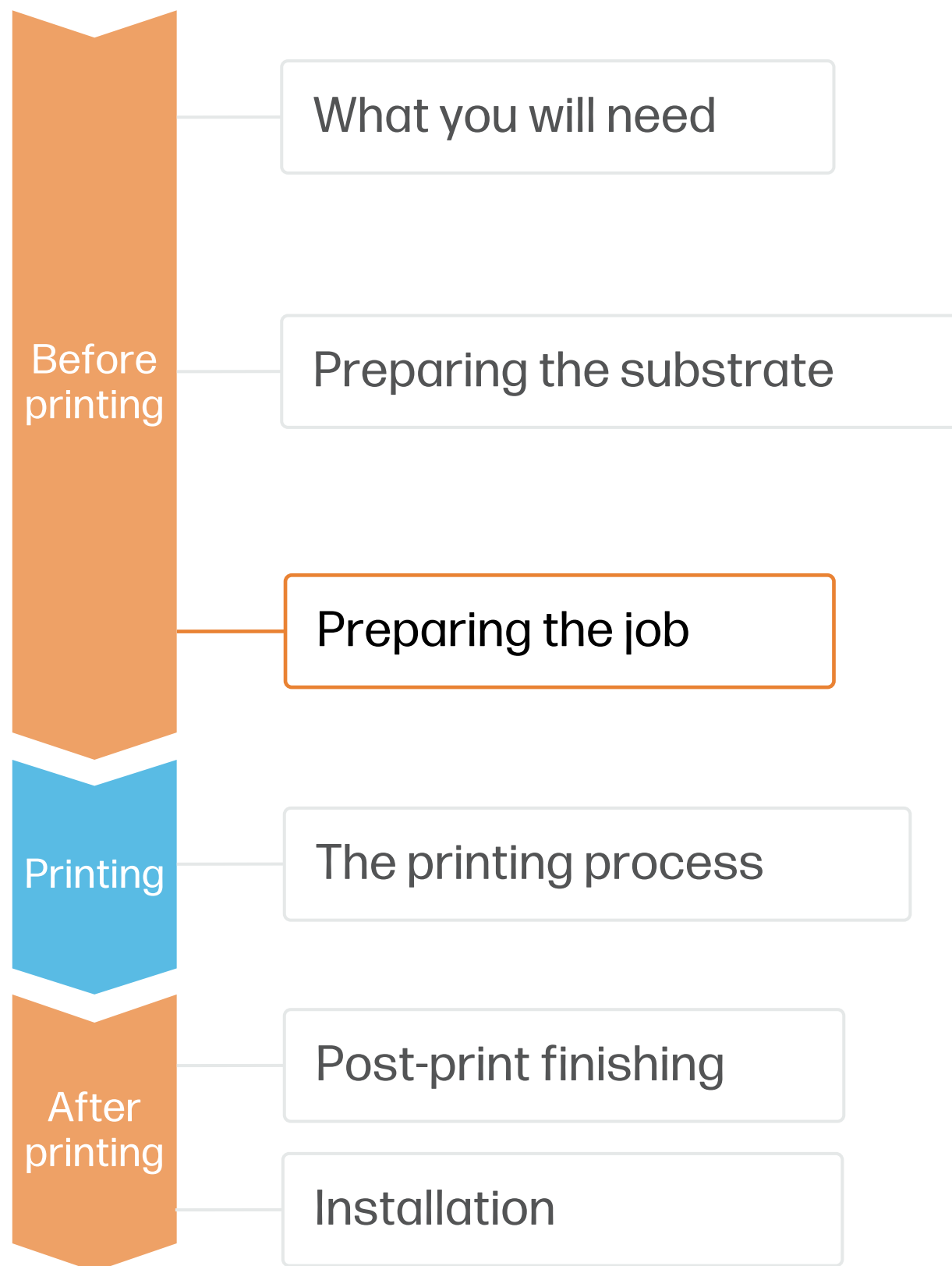
Onyx   Caldera

View more   View more
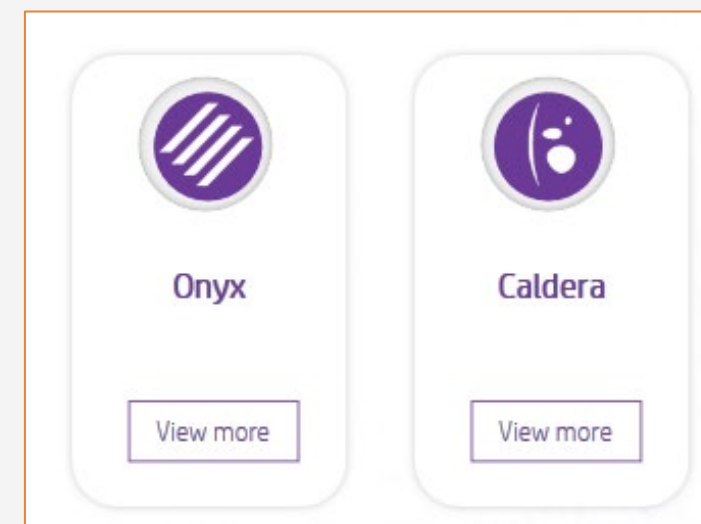
📝 NOTE: Please refer to the specific trainings on RIPs at the PrintOS Learn App.

A. Substrate & Printmode selection

- Choose the substrate type (Paper & Wallcovering), then select the specific substrate you have loaded on the printer, or a generic preset.

- Next, choose the printmode: **4p mode** gives good quality prints with wallcoverings. For optimal color and IQ, go to **6p mode.**
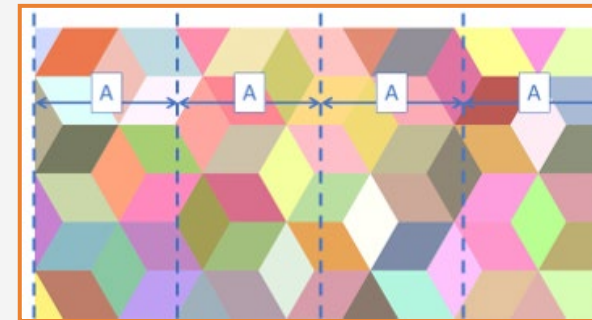
📝 NOTE: To work with white ink layers, learn how to create it with Illustrator and Photoshop by enrolling on the available trainings HP Latex 2700/2700 W Printer series White ink overview, White ink modes or White ink maintenance tasks.

How to do wallcoverings

Preparing the job

```
Before printing
  ┌─ What you will need
  └─ Preparing the substrate

  ── Preparing the job

Printing
  └─ The printing process

After printing
  ┌─ Post-print finishing
  └─ Installation
```

B. Image size & tiling

- Modify the image size according to the wall size and your design.

For patterns, you may choose a fixed tile width and assign the number of tiles needed to cover the wall.

For photo walls or special designs, adapt the tile width so the design is not cut off by the wall limits.

Extend the tile length at least 5cm extra on the top and bottom edges for later trimming.

- Configure the number and size of tiles.

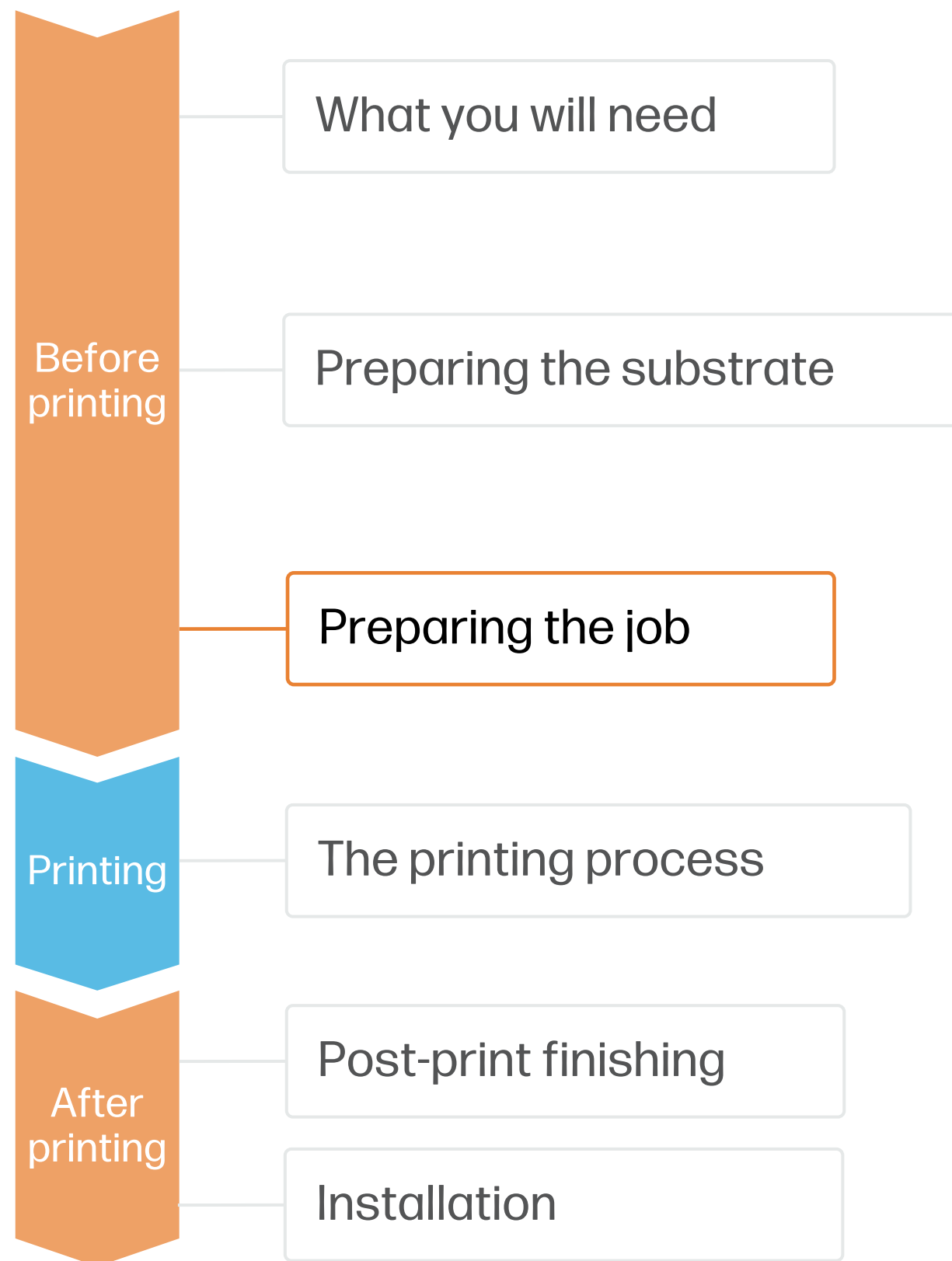- Add overlaps, recommended 1-3 cm, (max. 5 cm)

C. Finishing: cutting marks & others

- Select the automatic cutter you will use for cutting your jobs.

- Configure the cutting marks for that cutter: trim box, placement, and type of barcode.

- Add **labels** to identify each tile.

> NOTE: Each RIP has different ways to set the cutting marks. Please refer to the specific RIP manuals.

How to do wallcoverings

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3. Tips for tiling applications

Two critical requirements for tiling applications are the **color consistency** and **length consistency** tile-to-tile.

Contiguous tiles with the same background solid color may show differences in color between the right side of the first tile and the left side of the second tile.

Also, non-uniform dimensional stability of substrates, e.g. specific banners, can lead to differences in length side-to-side. Also, the dimensions of the print will not be correct when expansion or shrinkage of substrates occurs.

A. Color consistency tile-to-tile

- Ensure that your environmental conditions are suitable for best print quality: RH 40-60%, Temp. 20-25ºC.

- Choose print modes of **4p or higher**, with the lowest density possible.

- Avoid printing with a **cold printer**; warm it up by printing a short job in advance: A **nozzle health check** is enough to warm up the printer.

- Invert alternate tiles, from the RIP feature.
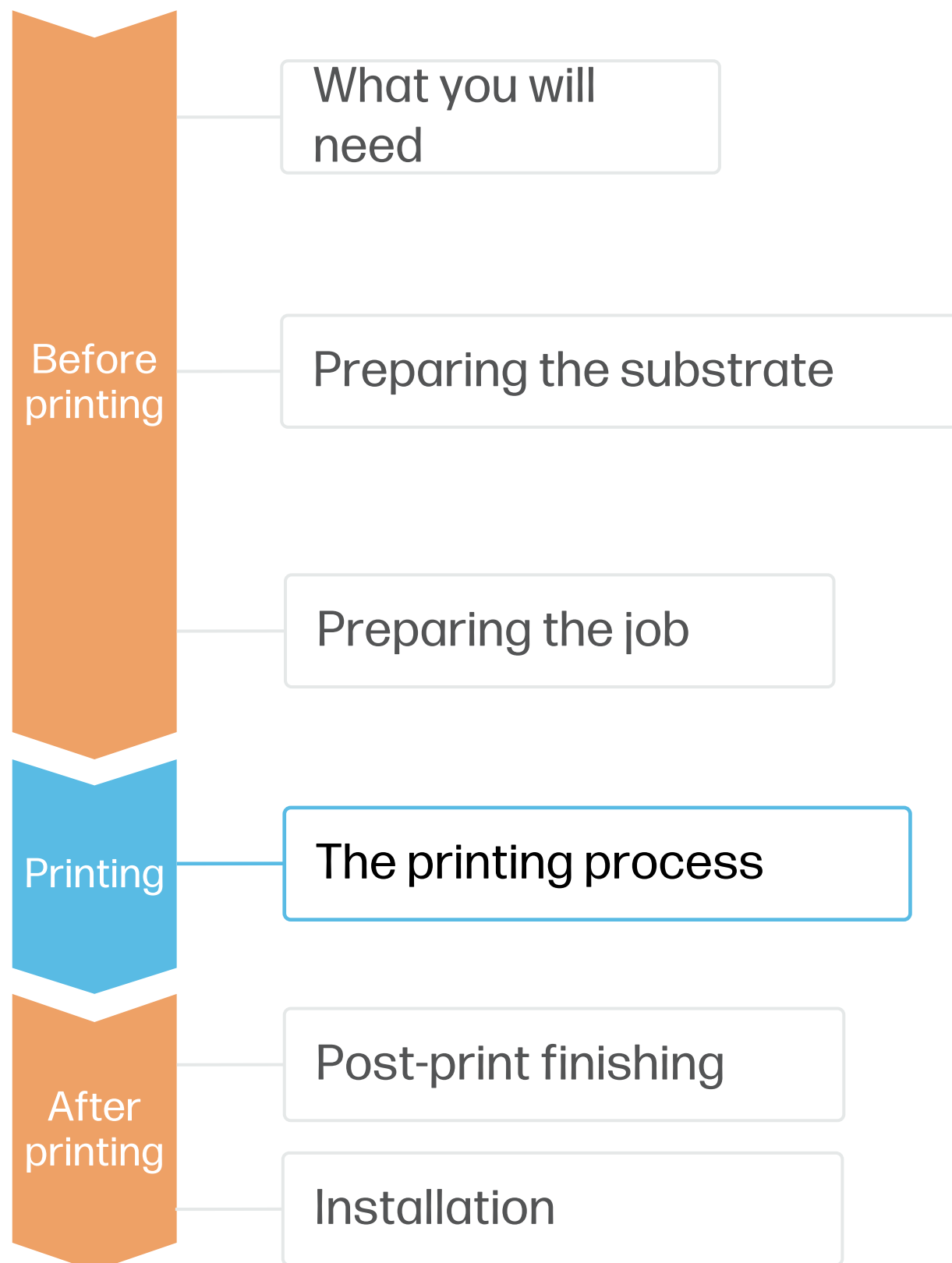

B. Length consistency tile-to-tile

- Ensure that the substrate-advance sensor is enabled in the RIP's substrate preset

- Invert alternate tiles, from the RIP feature.

- Tile together areas with similar amounts of ink. If this is not possible, print the areas with different amounts of ink as different jobs and modify the length of the job with less ink in the RIP to match its size with the job with high ink content.

- Print a sample and adjust the size of the image in the RIP accordingly.

The printing process

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1. **Load the roll** into the printer using the roll-to-roll configuration, if you need help the wizard in the IPS will guide you through this process.


2. **Select the right media preset** If your media is new, select from the **Generic Wallpaper presets**.

3. **Check print IQ status** Perform the printhead nozzle check and printhead alignment.

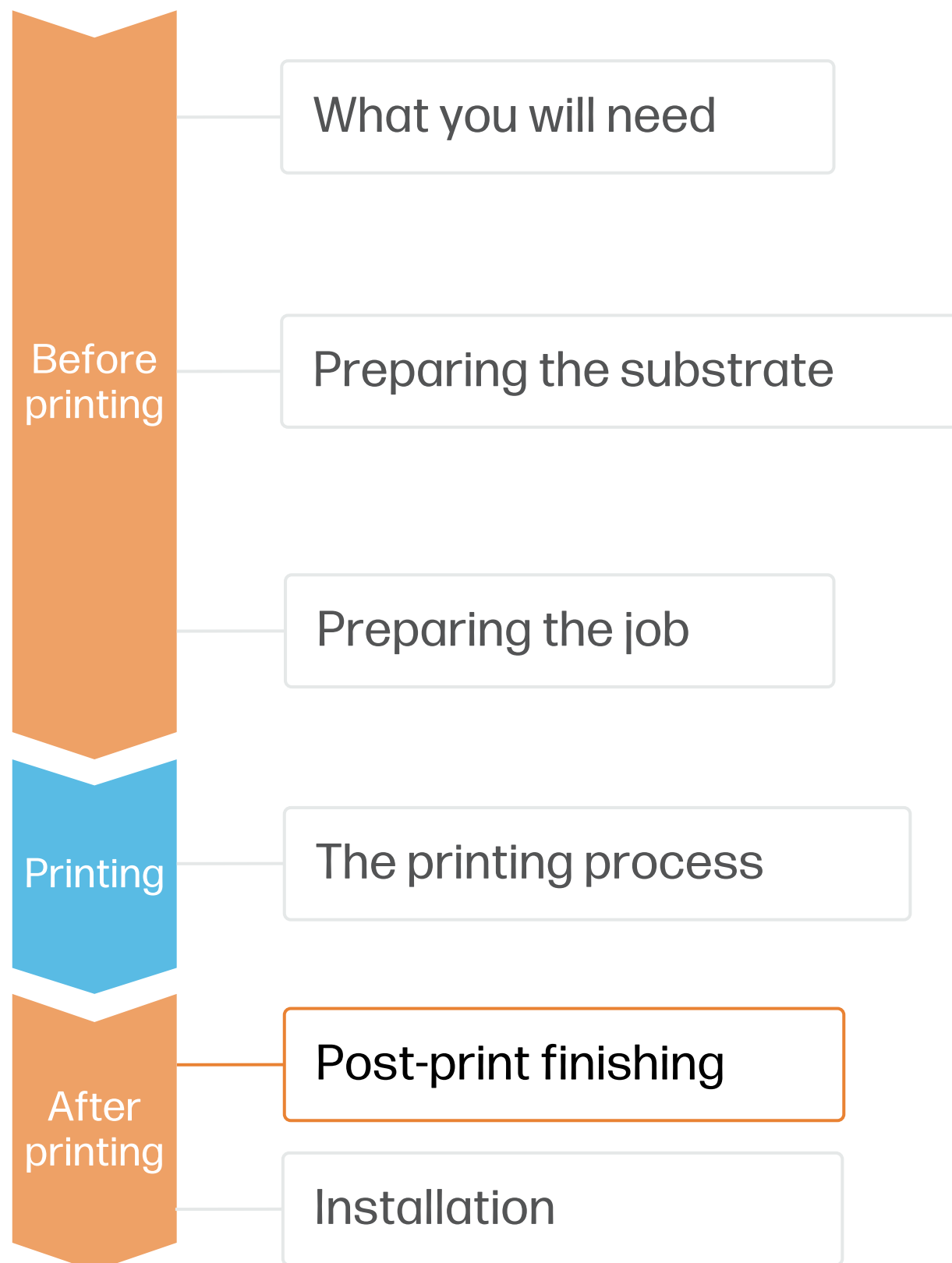4. **Send job to print from RIP**
   - Check the RIP has synchronized the loaded substrate with the printer.
   - Select the correct printmode and set any other settings (copies, placements, etc.).
   - Click **Send to print**.

5. **Cut & retrieve printed roll** This can be done manually.
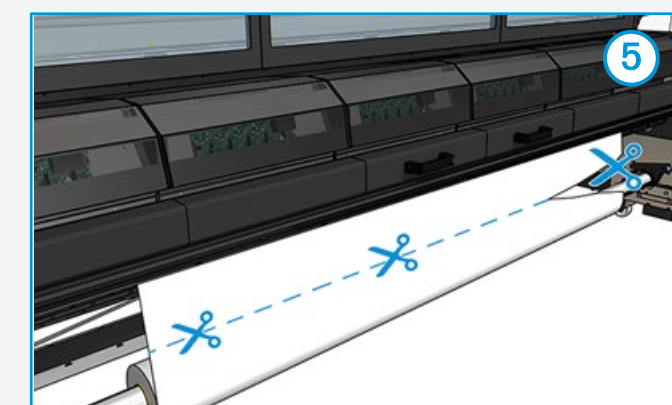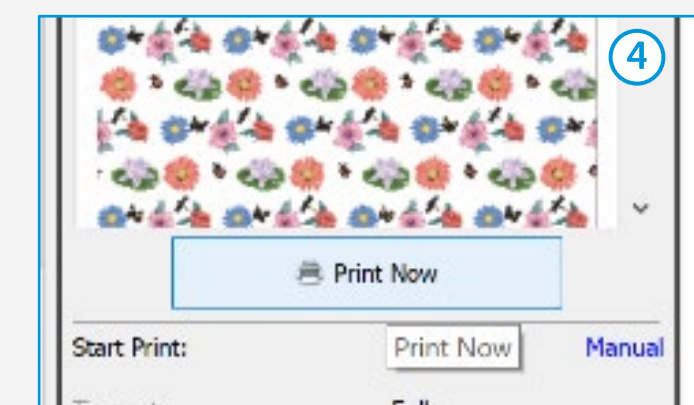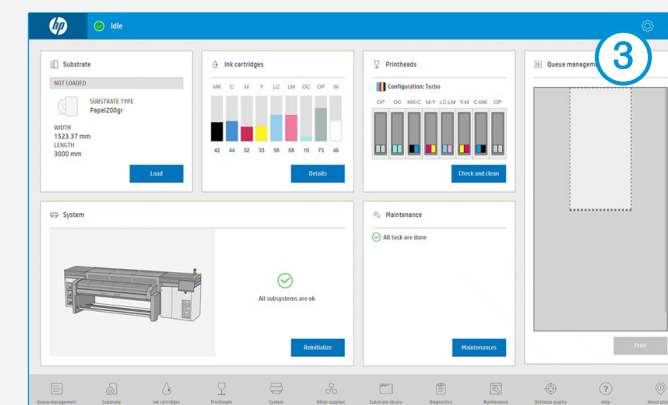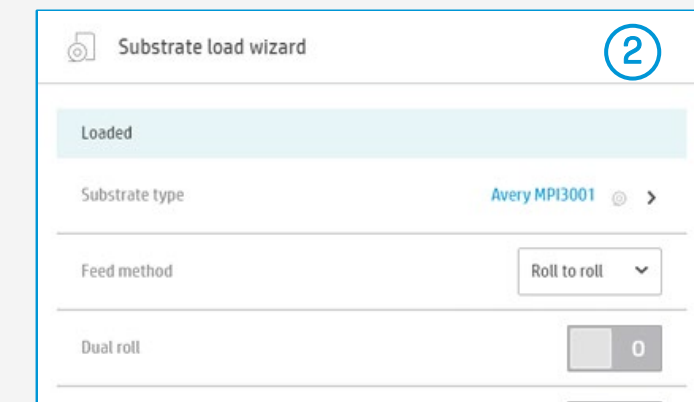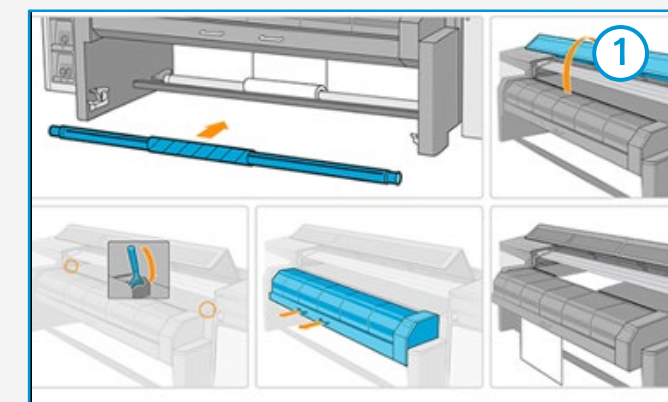
💡TIP: Before cutting the printed job, advance the substrate so you protect the printed roll when unloaded.
For further information, click on the following link to see the video to learn about how to load a roll into the printer here

How to do wallcoverings

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1. Liquid lamination (optional)

Wallcoverings printed with HP Latex 2700 and/or HP latex 2700 W series printers can be claimed to be up to "**washable**" standard according to EN 233 (2016), without any extra protection.

Liquid lamination is recommended when high levels of serviceability are required, that is in some commercial applications like hotels or restaurants.

It can be applied in 2 ways:

1. With a liquid laminator, prior to cutting tiles.
2. Manually with a roller, with tiles lying flat or after installation on the wall.

💡 **TIP:** Marabu Clearshield and Dreamscape Dreamguard are some of the liquid topcoats you can find on the market.

📝 NOTE: Cleanability performance is dependent on the substrate as well as the printmode used.
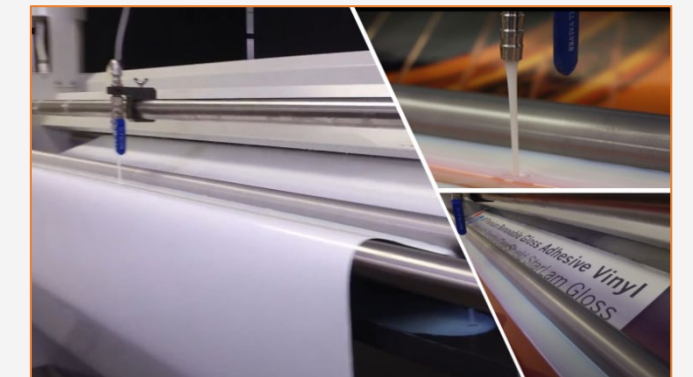
2. Cut

To cut the graphics automatically, you can use XY cutters (i.e. Fotoba) or flat bed contour cutters.
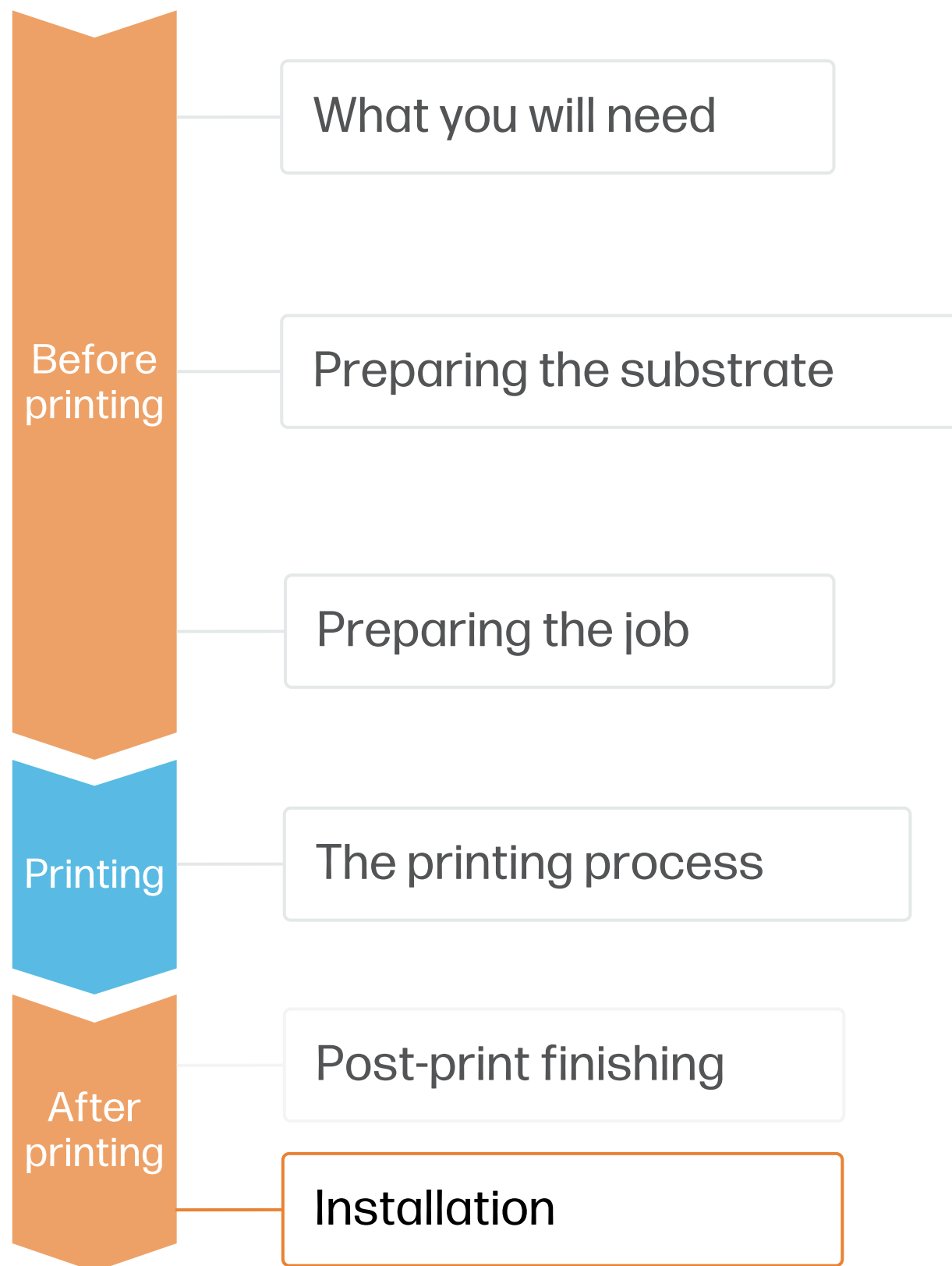

3. Rolling and packing

Tiles are normally rolled and packed, grouped by jobs.

Once printed, what else?

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1. Prior to installation

The base surface should be carefully prepared:

- **Remove old wallpaper and remains of old paste** - try using a squirting bottle with water and a few squirts of washing up liquid.

- **Remove** peeling paint **remnants.**

- **Re-plaster** and **sand down** any rough surfaces

- **Clean** with a damp cloth, leaving walls to dry completely before wallpapering
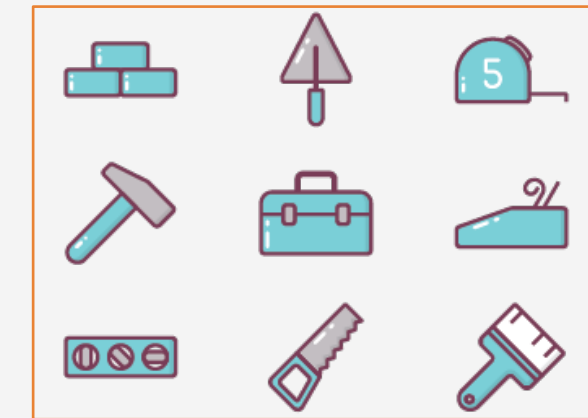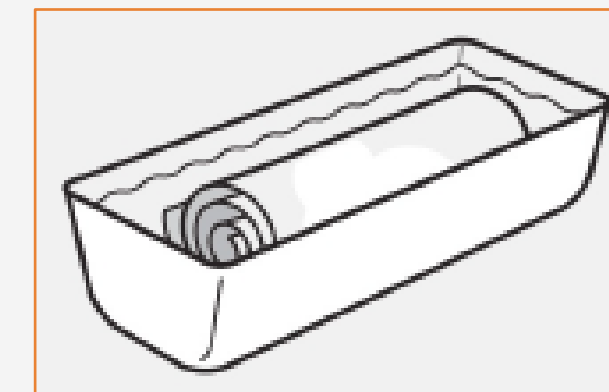
2. Paste application

The paste application technique will depend on the type of substrate you use.

a) With regular wallcovering substrates:

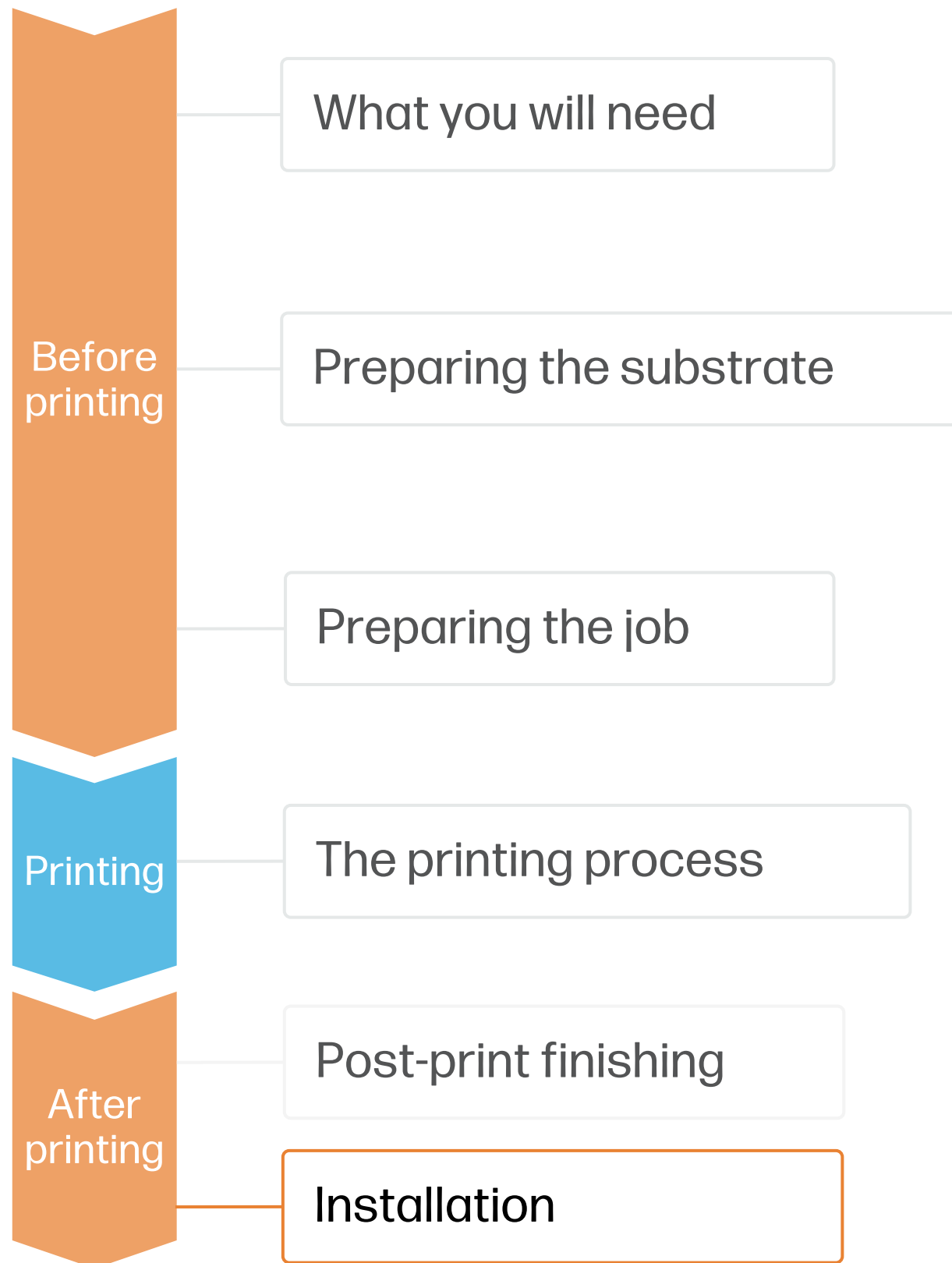1. Paste the wall

2. Paste the substrate

b) With pre-pasted substrates:

1. Soak the substrate in water

2. Spray water on the wall

Apply the graphic using a squeegee with a low friction sleeve on the edge or a smoothing brush.

Wall

Tile backside

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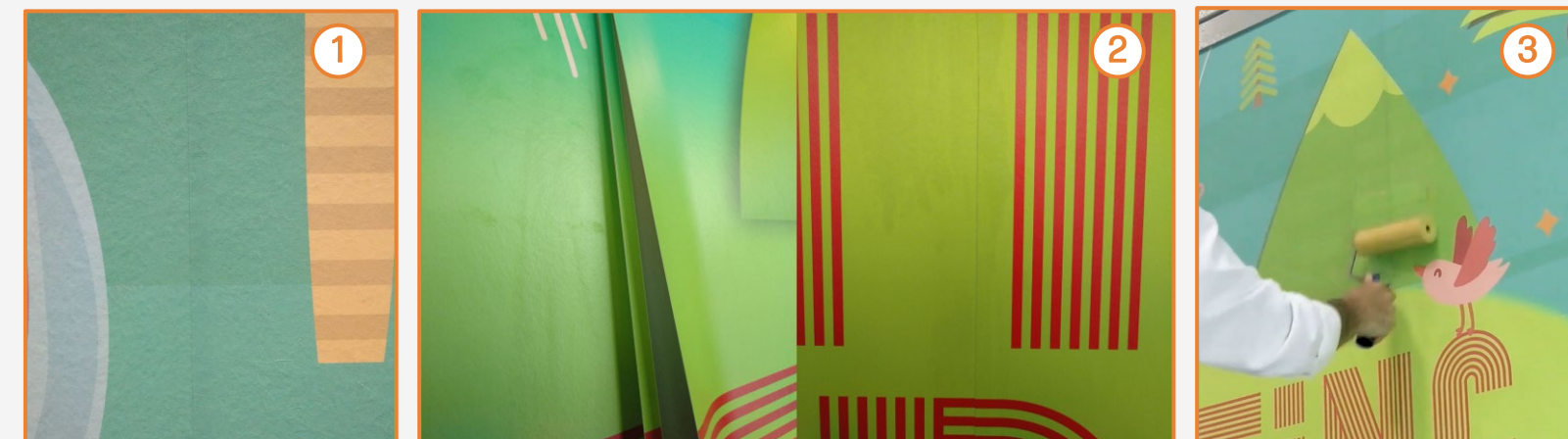 - Post-print finishing
  - **Installation**

3.Tiles installation

With the help of a leveler and a ruler, mark where to install the first tile.

Position the tile with your hands, and smooth down the substrate with a brush or spatula. Avoid damaging the graphic or causing scratches.
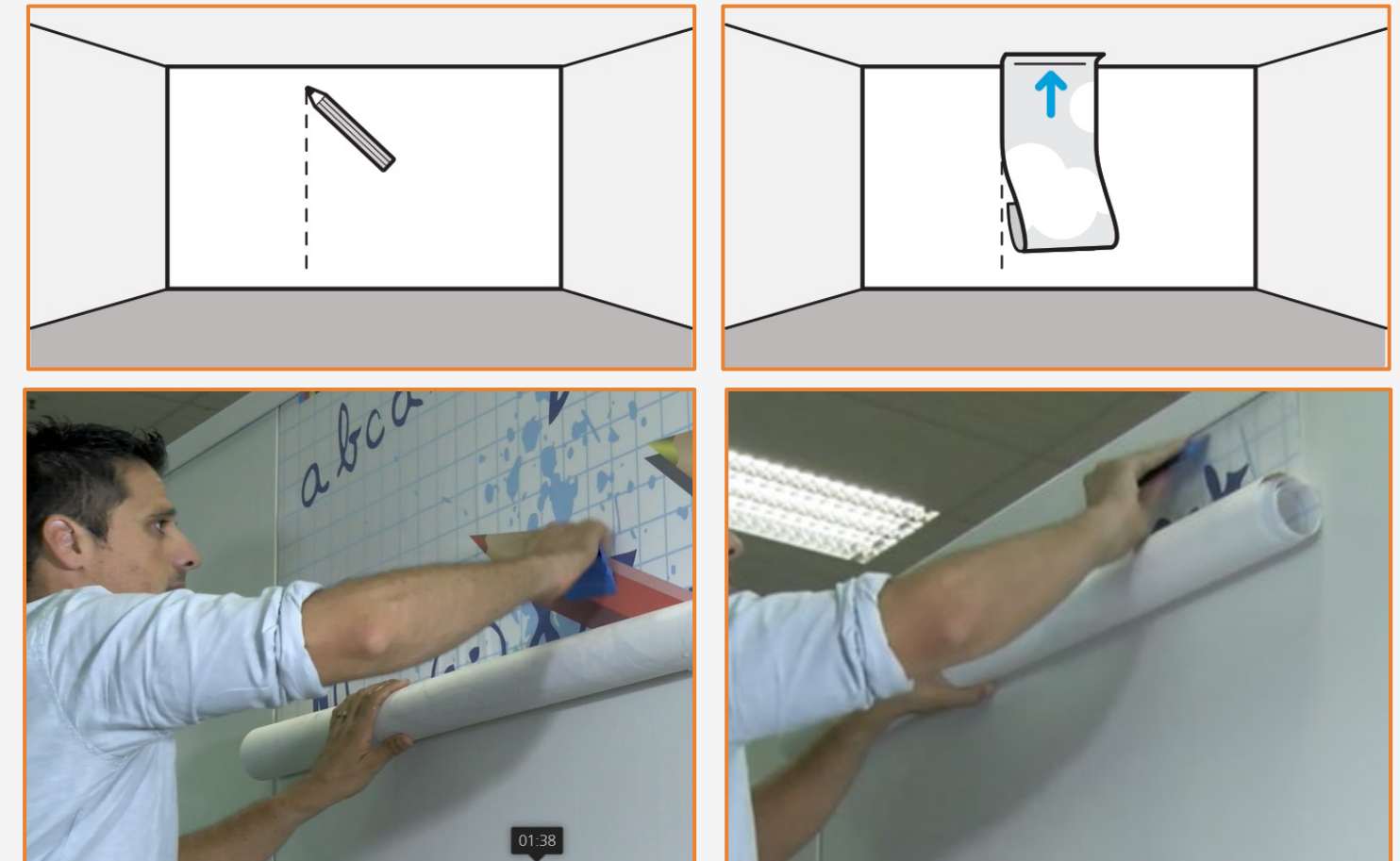
4.Seams: Overlap or double-seam cut

The next tile is placed overlapping the first tile. The seam can be left as overlapped (1) or seamless with a double-cut (2).
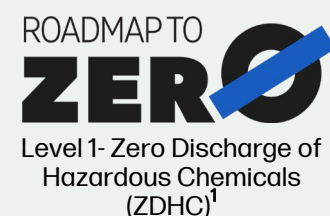
Smooth the seams with a roller (3).

Remarks

- HP Latex Technology provides great versatility for printing the widest portfolio of wallcovering types and surfaces.
- Get color consistency and length accuracy between tiles.
- The new HP Latex inks are ideal for safe indoor applications. The newest HP Latex Inks are UL ECOLOGO and UL GREENGUARD GOLD certified and conform to the Zero Discharge of Hazard Chemicals (ZDHC) manufacturing restricted substances list v1.1.

Learn more at:

- HP Latex Knowledge Center
- Learn with HP

Certifications:

ROADMAP TO
ZERO
Level 1- Zero Discharge of
Hazardous Chemicals
(ZDHC)[1]

ECOLOGO
PRODUCT CERTIFIED FOR
REDUCED ENVIRONMENTAL
IMPACT. VIEW SPECIFIC
ATTRIBUTES EVALUATED:
UL.COM/EL
UL 2801
Inks meet stringent
health and
environmental criteria[2]

GREENGUARD
PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD
Unrestricted, full room.
No-wait installation or
lamination[3]

[1]**Zero Discharge of Hazardous Chemicals.** Applicable to HP Latex Inks. The ZDHC Roadmap to Zero Level 1 demonstrates that an ink conforms to or meets the standards of the ZDHC Manufacturing Restricted Substances List (ZDHC MRSL) 1.1, a list of chemical substances banned from intentional use during production. ZDHC is an organization dedicated to eliminating hazardous chemicals and implementing sustainable chemicals in the leather, textile, and synthetics sectors. The Roadmap to Zero Program is a multi-stakeholder organization which includes brands, value chain affiliates, and associates, that work collaboratively to implement responsible chemical management practices. See roadmaptozero.com.

[2]Applicable to R Series and 700/800 Printer series HP Latex Inks. UL ECOLOGO® Certification to UL 2801 demonstrates that an ink meets a range of multi-attribute, lifecycle-based stringent criteria related to human health and environmental considerations (see ul.com/EL). HP is the only printing company with UL ECOLOGO® Certified inks in the "Printing Inks and Graphics Film" product category, see spot.ul.com/main-app/products/catalog/.

[3]Applicable to HP Latex Inks. UL GREENGUARD Gold Certification to UL 2818 demonstrates that products are certified to UL's GREENGUARD standards for low chemical emissions into indoor air during product usage. Unrestricted room size—full decorated room, 33.4 m² (360 ft²) in an office environment, 94.6 m²(1,018 ft²) in a classroom environment. For more information, visit ul.com/gg or greenguard.org.

In partnership with:

ZÜND swiss cutting systems

FOTOBA

ONYX

CALDERA WIDE FORMAT IMAGING

Summa Legendary Performance

is ImagingSolutions

Foster

MATIC