

OPTITEX /WORKFLOW

Technical Design & Variations

- Develop fabrics and test materials
- Build and digitize accurate patterns
- Grade patterns for size runs
- Render and sample in 3D
- Create style variations

Powered by



Pre-Production

- Create marker files, optimize nesting
- Build technical documentation
- Generate production diagrams
- Estimate costs
- Prepare plot and cut plans

Powered by



Conceptual Design

- Gather inspiration and plan collections
- Sketch early concepts in 2D and 3D
- Create colorways and digital materials

Powered/
Supported by



Pattern Revision & Validation

- Simulate patterns in 3D
- Analyze fit and verify accuracy
- Review collaboratively in O/Cloud
- Validate patterns before production

Powered by



Manufacturing

- Spread, bundle, and cut materials
- Use diagrams for guided assembly
- Sew and finish garments with hardware and manpower

Powered/
Supported by



OPTITEX *WORKFLOW*



Conceptual Design **Tools Used:** 3rd-party-tools, NedGraphics Print Studio, Optitex O/Cloud

Teams begin with inspiration gathering and collection planning using a variety of 3rd-party tools. Early 2D and 3D sketching is supported through creative applications and NedGraphics Print Studio Essentials. Designers produce initial color concepts and build accurate digital materials using the NedGraphics Print Studio Premium/Advanced/Enterprise, including Material Converter and Fabric Testing Solution. Optitex O/Cloud enables early feedback exchange, helping teams achieve early alignment and establish clear direction.



Technical Design and Variations **Tools Used:** Optitex PDS and O/Cloud, NedGraphics Suite

During this stage, pattern development takes center stage, with teams creating and digitizing patterns in Optitex PDS 2D, grading them across full size ranges, and validating fit and construction accuracy. Fabric development supports this work through the NedGraphics Suite and Material Converter, with material behavior validated using the Fabric Testing Solution. Designers then generate 3D prototypes using PDS 3D, enabling realistic virtual sampling and efficient exploration of design variations before physical development. O/Cloud supports collaboration by allowing teams to visualize 3D models side by side and compare different variations, styles, and construction options.



Pattern Revision and Validation **Tools Used:** PDS, O/Cloud

Models are simulated in 3D using PDS 3D to evaluate garment structure and fit. Teams perform fit analysis and pattern verification using PDS, and O/Cloud. Optitex's O/Cloud enables collaborative review and easy exchange of updates, helping stakeholders align quickly on revisions. This stage concludes with pattern validation, ensuring full accuracy before pre-production begins.



Pre-Production **Tools Used:** PDS, Marker, Nesting, Cut Plan, Print & Cut

Marker making and optimization are performed using Marker and automated nesting tools to ensure efficient material usage. Technical documentation and production diagrams are generated in PDS and Marker to support downstream operations. Costing is calculated directly within Marker, and teams prepare plot and cut plans that integrate PDS, Marker, Nesting, Cut Plan, and Print & Cut output.



Manufacturing **Tools Used:** Marker output, PDS output, Hardware systems

Production teams spread, bundle, and cut materials using hardware systems driven by Marker and PDS output. Sewing and assembly follow Technical Documentation and Production Diagrams created in PDS and Marker, guiding operators with clarity and precision. Final garments are constructed through coordinated hardware and manpower, supported by accurate upstream digital data.