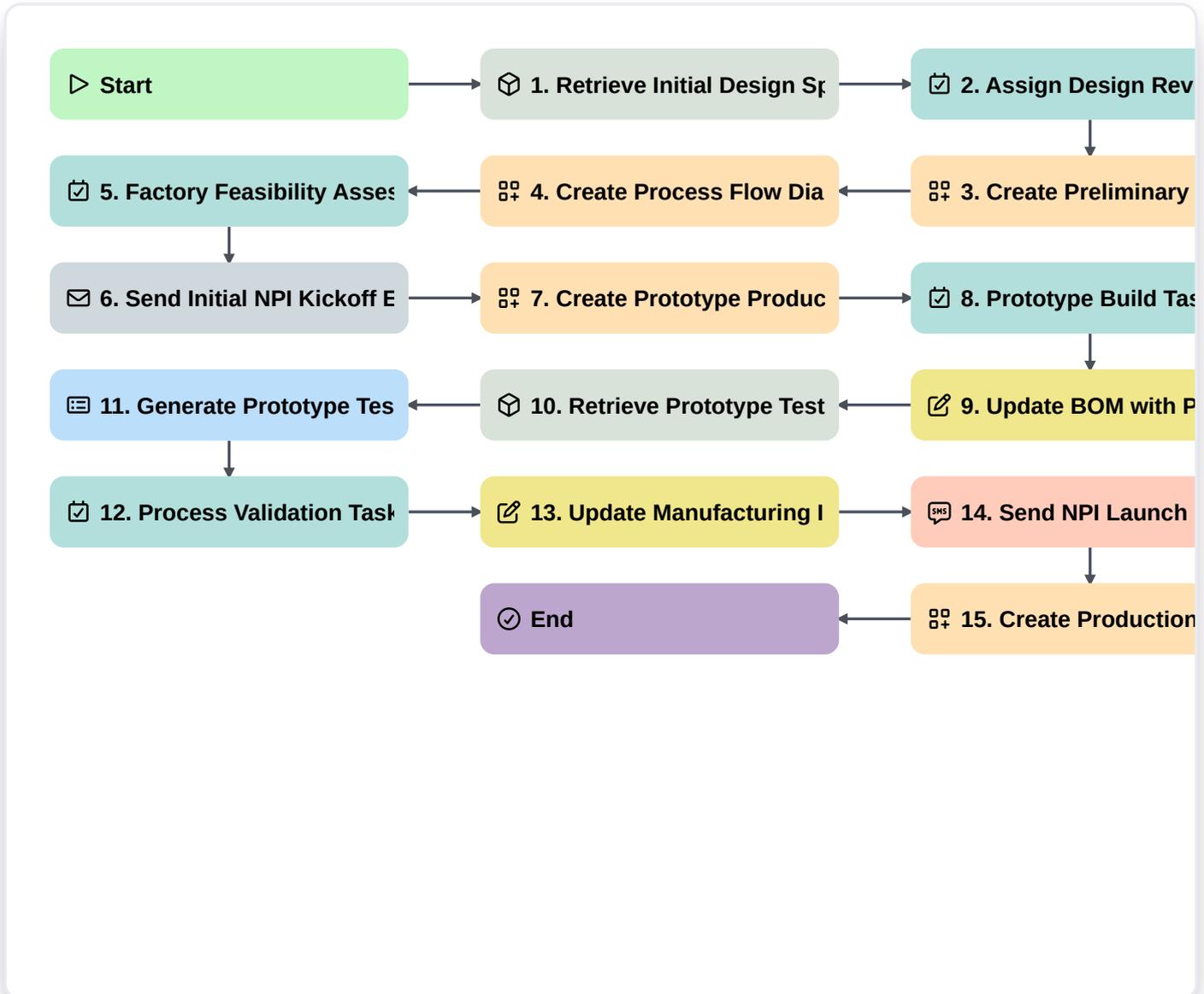


# New Product Introduction (NPI) Manufacturing Workflow



▷ **Start**

Start of the Workflow/Process.

 **1. Retrieve Initial Design Specifications**

Fetch initial design specifications from the product design data model.

 **2. Assign Design Review Task**

Create a task for the engineering team to review the design specifications.

 **3. Create Preliminary Bill of Materials (BOM)**

Create a preliminary BOM based on the design specifications.

 **4. Create Process Flow Diagram**

Create a preliminary process flow diagram outlining the manufacturing steps.

 **5. Factory Feasibility Assessment Task**

Assign a task to assess manufacturing feasibility at the factory.

✉ **6. Send Initial NPI Kickoff Email**

Send an email to relevant stakeholders announcing the NPI process initiation.

📋 **7. Create Prototype Production Plan**

Define the prototype production plan, including quantity and timeline.

📌 **8. Prototype Build Task Assignment**

Assign the prototype build task to the manufacturing team.

✍️ **9. Update BOM with Prototype Feedback**

Update the BOM based on feedback from the prototype build.

📦 **10. Retrieve Prototype Test Results**

Fetch the test results from the prototype testing phase.

📄 **11. Generate Prototype Test Report**

Create a report summarizing the prototype test results.

📌 **12. Process Validation Task Assignment**

Assign the task of validating the manufacturing process.

✍️ **13. Update Manufacturing Instructions**

Update manufacturing instructions with process validation findings.

📱 **14. Send NPI Launch Notification**

Send an SMS notification to key personnel regarding the product launch.

📋 **15. Create Production Ramp-Up Plan**

Define the plan for scaling up production volume.

🏁 **End**

Start of the Workflow/Process.