

## Production Recipe: "STD LS-Si<sub>3</sub>N<sub>4</sub> v4"

The **STD LS-Si<sub>3</sub>N<sub>4</sub> v4** recipe is our **Standard Low-Stress Nitride** process designated as a **Production Category** recipe, indicated by a yellow star. In production recipes, users are only permitted to modify the **deposition time**.

### Modifying the Deposition Time in a Production Recipe:

1. Click on the **"Recipe"** icon (located at the lower-left side of the screen, next to the **"Process"** icon). The icon will be highlighted in blue.
2. Click the **"Load"** button (upper-left side of the screen).
3. A list of production recipes will appear on the right side.
4. Locate and select the production recipe labeled **"STD LS-Si<sub>3</sub>N<sub>4</sub> v4"**.
5. The recipe consists of the following processing steps:
  - **Initial**
  - **Pressure Stab**
  - **HF Process Step**
  - **LF Process Step**
  - **Loop for [time]**
  - **End**
6. Ensure that Step #5, **"Loop for [time]"**, is highlighted.
7. In the middle of the screen, locate the **"Loop to Step"** window. Ensure that only **"HF Process"** is selected/highlighted. This ensures the loop includes both the **HF Process Step** and **LF Process Step**, which is the correct configuration.
  - **Note:** Selecting only **LF Process Step** will loop exclusively with the LF Process Step. Selecting **"Pressure Stab"** will cause the loop to include **Pressure Stab** → **HF Process Step** → **LF Process Step**, which is incorrect.
8. On the left side of the screen, locate the **"Loop Termination"** window. Two options are available:
  - **Iterations**
  - **Time**
  - Ensure **"Time"** is selected and enter the desired **deposition time**
9. Recipe photo **"STD LS-Si<sub>3</sub>N<sub>4</sub> v4"**

