

# Sheet Metal Forming - Quickly Produce Tools In-House with 3D Printing

written by Lauri Moon | June 10, 2020

Tooling for sheet metal forming, with machining or outsourcing, can be a costly and lengthy process. With advancements in materials science for in-house stereolithography (SLA) 3D printing, you can reduce your tooling costs by 3D printing strong plastic tools in-house.

In this webinar, Shane Wighton, engineering lead at Formlabs, will teach you how to form sheet metal with SLA 3D printed tools. Learn specific design considerations and application examples for printed tools suitable for your machine shop or assembly line.

What you will learn:

- The step-by-step process to form an electric saw blade guard with sheet metal and 3D printed tools.
- Problems that can occur with 3D printed tools and tips to help prevent them.
- Which 3D printed materials were used to print multiple iterations of tooling for the blade guard.
- How Shane designed two different tools to address three design challenges that exist with forming a blade guard.
- Die design guidelines for forming inner features and bending metal sheet with holes.

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