

Machining 2

Participant Resource Sheet



Machining is a set of various processes where raw material is shaped using tools and machines. This Level 2 badge is designed to extend the knowledge from level 1 for participants. This badge is organized into 4 topics. To earn the badge, participants must successfully complete all items in each topic.

Mentors will certify the participant knowledge using the downloadable rubric.

Name: _____

Email used for badges: _____

<i>Topic</i>	<i>Task</i>	<i>Mentor Sign & Date</i>
Safety	Teach team safety rules to new members and help them meet any team requirements to safely and properly use tools.	
Materials	Recognize when threading is reversed.	
Materials	Explain how bolts/nuts/screws are sized and what thread count means.	
Tools	List common power tools and explain limitations on their use.	
Calculations	Explain torque and how to measure it.	
Operations	Use calipers and micrometers to accurately measure both size of objects and positions to drill holes.	
Operations	Lay out holes with calipers/micrometers and drill using drill press.	
Operations	Determine correct tap for a given application.	
Operations	Precisely cut pieces measured with a precision measuring tool.	

Badge Completed Date: _____

Date Submitted: _____