



# MANUFACTURING CLUSTER

## LESSON 4

<b>Lesson Plan Title:</b> Joining		<b>Instructor:</b>
<b>Suggested Total Time for Lesson (minutes):</b> 45-65 minutes (1-2 days)		
<b>Content Focus - What Will Students Learn? (Content Skill Sets)</b>		
0972.MA.1864.10 Perform welds on plate in all positions		
<b>Materials and Resources- What do you need to assemble and prepare before the lesson?</b>		
<b>Materials:</b> <ul style="list-style-type: none"> <li>• Easy Cheese</li> <li>• Crackers (of choice)</li> <li>• Nail File</li> <li>• Wax Paper</li> </ul>		<b>Resources:</b> <ul style="list-style-type: none"> <li>• <a href="https://www.youtube.com/watch?v=lp5uoHDCAjQ">https://www.youtube.com/watch?v=lp5uoHDCAjQ</a></li> </ul>
<b>Lesson Outline: What learning activities will your students do?</b>		
<b>Time</b>	<b>Sequence/Description of Learning Activity</b>	
10-15 minutes	<b>Get Started/Explain:</b> Students will Take notes on Joining	
30-35 minutes	<b>Discover/Engage/Practice:</b> Students will form groups or teacher may assign groups of 3-4 Students will view Easy Cheese Demo Students will prepare surface and demonstrate basic welding techniques.	
10-15 minutes	<b>Check for Understanding/Summarize/Close:</b> Students will explain the challenges of working through activity	
<b>Modifications, Support, and Extensions (for those students with IEP)</b>		
<b>Reflection- Did the students learn the content outlined in the lesson focus? Why or why not?</b>		