

Cluster: Manufacturing			
Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: 24:15:06:57</p> <p>NEW: 24:15:10:07 24:15:10:08(3)</p>	<p>Manufacturing Cluster Endorsement</p>	<p>Formerly welding technology endorsement.</p> <p>Requires completion of career and technical education alternative route to certification; or Bachelors in education degree</p> <p>AND</p> <p>Either 15 credits of related coursework or verification of 4,000 hours of work experience in a related field; or State-approved national certification.</p>	<p>Requires, completion of career and technical education traditional certification or alternative route to certification.</p> <p>AND either</p> <p>1.) 15 credits total, including: At least 1 credit from each of the following: -sheet metal fabrication -assembly -blueprints -mathematics OR</p> <p>2.) Passage of one of the following state certification exams: AA degree in Manufacturing NOCTI Welding or AWS certification and NOCTI Precision Machining</p>

Cluster: Manufacturing (cont.)			
Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: 24:15:06:55</p> <p>NEW: 24:15:10:01 24:15:10:02(14)</p>	<p>Welding & Precision Machining Pathway Endorsement</p>	<p>Formerly Machine Tool Technology.</p> <p>Requires completion of career and technical education alternative route to certification; or Bachelors in education degree</p> <p>AND</p> <p>Either 15 credits of related coursework or verification of 4,000 hours of work experience in a related field; or State-approved national certification.</p>	<p>Requires, completion of career and technical education traditional route to certification; OR CTE specialist route to certification.</p> <p>AND either</p> <p>1.) 9 credits total, including: at least 1 credit from each of the following: -lathe/mill operation -sheet metal arc welding (SMAW) -gas metal arc welding (GMAW) -oxy gas welding OR</p> <p>2.) Passage of one of the following state certification exams: AWS Certification NOCTI Welding NOCTI Precision Machining OR</p> <p>3.) 4,000 hours of validated work experience in a related field within the previous five years</p>