



Skilled and Technical Sciences

# **Manufacturing Cluster Standards**

Delaware Department of Education (DE DOE)  
 Skilled and Technical Sciences Standards  
 for  
**Industrial Mechanic/Millwright**

Additional Teacher Requirements: Work experience and education that meets DE DOE certification requirements for Skilled and Technical Sciences teacher  
<http://regulations.delaware.gov/AdminCode/title14/1500> plus:

Pre-requisite formal training:

1. Verified completion of at least 576 hours of specific Industrial Mechanics/Maintenance and/or Millwright formal training above the high school level, OR
2. A DE DOE approved Millwright Journeyman Certificate, OR
3. A DE DOE approved Industrial Mechanics or Industrial Maintenance Journeyman Certificate, OR
4. A confirmed 70% or above score on each of the Written and Performance Assessments of the National Occupational Competency Testing Institute's (NOCTI) Industrial Technology (0076) Experienced Worker (Teacher) Assessments [www.nocti.org](http://www.nocti.org),

Certification requirements:

1. NCCER Craft/Technician Instructor Certification ([www.nccer.org](http://www.nccer.org) -- see your county's Area Career and Technical Education Center's Apprenticeship Education supervisor for training session information.

For Delaware STS Teacher Certification, a DE DOE approved Millwright Journeyman Certification OR Industrial Mechanics/Maintenance Journeyman Certification is equal to six Career-Related credits and a confirmed 70% or above score on each of the Written and Performance Assessments of the National Occupational Competency Testing Institute's (NOCTI) Industrial Technology (0076) Experienced Worker (Teacher) Assessments is equal to nine Career-Related credits. NCCER Craft/Technician Instructor Certification is equal to one Career-Related credit.

<b>Industrial Mechanic/Millwright Pathway</b>					
509 CIP#	Classification of Instructional Programs (CIP) Name	Skill Level	Credits	Standard	End of Pathway Assessment
47.030321	Industrial Mechanics and Maintenance Technology I	Foundational Skills	Minimum of 2	National Center for Construction Education and Research <i>Contren</i> <sup>®</sup> <i>Core Curriculum: Intro. Craft Skills &amp; Millwright Level I</i> <a href="mailto:Jennifer.Kloza@pearson.com">Jennifer.Kloza@pearson.com</a>  AND  American Technical Publishers <i>Industrial Mechanics</i> Curriculum Materials <a href="http://www.go2atp.com">www.go2atp.com</a>	Millwright/Industrial Maintenance Apprenticeship 1 <sup>st</sup> Year Final Exam
47.030322	Industrial Mechanics and Maintenance Technology II	Intermediate Skills	Minimum of 2		
47.030323	Industrial Mechanics and Maintenance Technology III	Employment-entry Skills, Cooperative Employment Opportunities, and Exam Preparation	Minimum of 2		

Standards Subcommittee Members:

Mr. Stan Studzinski, Hodgson Vo-Tech H.S.  
 Mr. Tunis Foltz, Hodgson Vo-Tech H.S.  
 Mr. Jerald Kissel, Connective Energy  
 Mr. Lewis Ray, W.L. Gore & Associates  
 Mr. Domenic Pedante, M. Davis & Sons