

Jumpstart 2.0 Apprenticeship: Mechanical Engineering Technician
Apprenticeship Partner: The 1881 Institute

Overview

The mechanical engineering technician apprenticeship is designed to prepare students to enter and succeed in a registered apprenticeship while exploring the mechanical engineering technician trade. This mechanical engineering technician pre-apprenticeship program gives students an introduction to mechanical design, manufacturing of components, and the workplace soft skills that support a team of engineers and scientists. These skills are necessary for advanced placement into a post-secondary mechanical engineering technician apprenticeship program. Completers who are 18 or older can apply for a registered mechanical engineering technician apprenticeship with engineering companies willing to hire them.

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
Fusion 360	Autodesk Certified User AutoCAD, ADDA Certified Mechanical Apprentice Drafter, NIMS Machining Level 1	AutoDesk Inventor Certified User, NIMS Machining Level 2	Apprenticeship: Mechanical Engineering Technician

**Core Academic Course*
***Jump Start CTE Course*

Grade 9	
Semester 1	Semester 2
*Technical Writing 120350	*English I 120331
*Math Essentials 160351	*Algebra I 160321
*Physical Science 150802	*Physical Education I 190105
**Basic Technical Drafting 110560	*Civics 220501

Grade 10	
Semester 1	Semester 2
*English II 120332	*Geometry 160323
*Algebra II	*U.S. History 220403
*Biology 150301	*1/2 Physical Education II 190106, 1/2 Health Education 190500
**Advanced Technical Drafting 110590	**Quest for Success 080411

Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.

Grade 11			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
	*Business English 120336		**Physics I 150000
	**Introduction to Engineering Design 110799		**Principles of Engineering 110864
	** Fast Forward Apprenticeship: 1881		** Fast Forward Apprenticeship: 1881

Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
	** Fast Forward Apprenticeship: 1881 OJT		** Fast Forward Apprenticeship: 1881 OJT

This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review Panel will consider course equivalents on an as needed basis.