

Registered Apprenticeship

Overview

The Fast Forward Apprenticeship pathway has four Registered Apprenticeship opportunities through The 1881 Institute, Lafourche Career Magnet Center, Operation Spark, and Plumbers and Steamfitters Local 60.

These opportunities are available for mechanical design, component manufacturing, hospitality, and software design students. They provide students with knowledge and skills by introducing them to the tools and materials used by welders daily, teaching essential soft skills for workplace success, and offering instruction in fundamental welding theories. The training encompasses a range of welding processes and techniques, including Oxyfuel cutting, carbon arc cutting, shielded metal arc welding, gas tungsten arc welding, flux cored arc welding, gas metal arc welding, plasma arc cutting, blueprint reading, weld symbols, and joints. Furthermore, students will develop software engineering thinking and acquire the necessary skills to become full-stack engineers. These pathways also include on-the-job work experience to help students gain practical experience in their chosen career field.

Guidance Overview

This guidance is meant to help school systems and parents navigate the opportunities to complete an Associate Degree in high school. School systems should verify information with the post-secondary institution to ensure students are enrolled in the appropriate college classes to earn the associates degree. This guidance includes:

- [Post-Secondary Degree Paths](#) details all courses required for the Applied Associate Degree. The Applied Associate Degree has limited general education courses and is primarily designed to prepare students for immediate employment or career entry.
- [Secondary Courses not included in the Post-Secondary Program of Study](#) detail all courses the student must take prior to or in tandem with the college courses to meet secondary graduation requirements. Typically, these are courses students are scheduled to take in grades 9 and 10.
- [Capstone Credentials](#) details all Industry Based Certifications a student can receive to complete the Applied Associate Degree. Students working towards a Jump Start Diploma must complete at least one capstone credential to graduate.
- [High School Transcription](#) details the LDOE course code a counselor should use to transcribe the college courses that do not have a dedicated LDOE course code.

Registered Apprenticeships Approved by BESE for Fast Forward

- **The 1881 Institute:**
[Apprenticeship: Mechanical Engineering Technician](#)
- **Lafourche Career Magnet Center:**
[Apprenticeship: Welder](#)
- **Operation Spark:**
[Apprenticeship: Application Developer](#)
- **Plumbers and Steamfitters Local 60:**
[Apprenticeship: Pipe Trades](#)



Registered Apprenticeship Paths

The 1881 Institute Registered Apprenticeship: Mechanical Engineering Technician

Registered Apprenticeship Content
Introduction to Engineering Design
Physics I
Principles of Engineering
Apprenticeship: Mechanical Engineering Technician
Apprenticeship: Mechanical Engineering Technician OJT

Registered Apprenticeship Paths

Lafourche Career Magnet Center Apprenticeship: Welder

Registered Apprenticeship Content
Occupational Orientation and Safety
Oxyfuel Systems
SMAW V-Groove BU/Gouge
FCAW Basic Fillet WELDS
Apprenticeship: Career Magnet Center
Apprenticeship: Career Magnet Center OJT

Registered Apprenticeship Paths

Operation Spark Apprenticeship: Application Developer

Registered Apprenticeship Content
Fundamentals of JavaScript
Advanced JavaScript
Fundamentals of Video Game
Internet of Things
Apprenticeship: Operation Spark
Apprenticeship: Operation Spark OJT

Registered Apprenticeship Paths

Steamfitters and Pipefitters Union Apprenticeship: Pipe Trades

Registered Apprenticeship Content
General Technology Education
Construction Math Level 1
Workplace Safety
Construction Math Level 2
Design, Blueprint Reading and Codes
Basic Electricity II
SMAW Pipe 6G
Welding Technology
Apprenticeship: Steamfitters and Pipefitters Union
Apprenticeship: Steamfitters and Pipefitters Union OJT

Secondary Courses - Grades 9-10

Completing the Registered Apprenticeship sequence of courses will provide the student with Jump Start elective graduation requirements. The below set of courses would need to be completed on the high school campus.

TOPS University	
Core Academic Requirements	LDOE Course Code
English I	120331
English II	120332
English III	120333
English IV	120334
Algebra I	160321
Geometry	160323
Algebra II	160322
4th Math	
Biology	150301
Chemistry I	150401
3rd Science	
4th Science	
Civics	220501/220504
U.S. History	220403
3rd Social Studies	
4th Social Studies	
Physical Education I	190105
½ Physical Education II	190106
½ Health Education	190500
Art	TBD by course selected
Foreign Language I	TBD by course selected
Foreign Language II	TBD by course selected
Financial Literacy	160345

Jump Start	
Core Academic Requirements	LDOE Course Code
English I	120331
English II	120332
3rd English	
4th English	
Algebra I	160321
Geometry	160323
Financial Literacy	160345
4th Math	
Biology	150301
2nd Science	
Civics	220501/220504
2nd Social Studies	
Physical Education I	190105
½ Physical Education II	190106
½ Health Education	190500

Capstone Credentials

In order to graduate, Jump Start students must earn at least one credential from the options below.

Emerging	Basic	Advanced	Fast Forward
OSHA 30	Autodesk Certified User AutoCAD	AutoDesk Inventor Certified User	2 years engaged with a Registered Apprenticeship
	Fundamentals of JavaScript, Functional Programming and Web Development, Level 1	Fundamentals of JavaScript, Functional Programming and Web Development, Level 2	

High School Transcript

The below courses should be used for college courses without a dedicated secondary course code.

Secondary Course Name	Secondary Course Code	Maximum Carnegie Units
Fast Forward Registered Apprenticeship 1	890000	4
Fast Forward Registered Apprenticeship 2	890110	4
Fast Forward Registered Apprenticeship 3	890111	4
Fast Forward Registered Apprenticeship 4	890112	4
Fast Forward Registered Apprenticeship 5	890113	4
Fast Forward Registered Apprenticeship 6	890114	4
Fast Forward Registered Apprenticeship 7	890115	4
Fast Forward Registered Apprenticeship 8	890116	4
Fast Forward On the Job Training 1	890002	4
Fast Forward On the Job Training 2	890013	4
Fast Forward On the Job Training 3	890014	4
Fast Forward On the Job Training 4	890015	4
Fast Forward On the Job Training 5	890016	4
Fast Forward On the Job Training 6	890017	4
Fast Forward On the Job Training 7	890018	4
Fast Forward On the Job Training 8	890019	4