

Pipefitter's Helper

Regional Pathway	<p>The Pipefitter's Helper graduation pathway is a Regional pathway. Students must:</p> <ol style="list-style-type: none"> 1) pass 9 Carnegie credits of courses from this pathway; 2) including at least one Career Readiness course (one Carnegie credit); 3) attain NCCER Core; 4) attained the specified credentials within NCCER Level 1; and 5) two Complementary credentials.
High-Demand Careers Related to this Pathway	<p>5 Star: Pipefitter, Welder, Cutter, Solderer, Brazier, Plumber, Steamfitter, Industrial Machine Mechanic</p> <p>4 Star: Boilermaker, Maintenance and Repair Worker, Sheet Metal Worker, Structural Metal Fabricator and Fitter</p> <p>2 Star: Construction Laborers, Pipefitters' Helpers</p>
Starting Salary Ranges for this Pathway	\$20,000 - \$29,000
Pipefitter's Helper Graduation Pathway: Sections	
1	<p>Pathway-Specific Courses</p> <p>This section lists the course titles and codes for courses specific to this pathway</p> <p>Each table also indicates those courses that qualify for the basic 6% CTE adder (<i>course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses</i>) as well as those courses that qualify for the additional 6% Career Development Fund (or CDF) payment.</p>
2	<p>Universal Jump Start Courses</p> <p>This section lists the course titles and course codes for courses that are part of every Jump Start graduation pathway</p>
3	<p>Career Readiness Courses</p> <p>This section lists the course titles and codes for courses that qualify as Career Readiness Courses. Students must pass at least one Carnegie credit of Career Readiness courses, but may apply more than one Career Readiness course to their 9 credit Jump Start graduation requirement.</p>
4	<p>Internships</p> <p>This section indicates the three types of internships and the appropriate course codes.</p>
5	<p>Culminating Credentials</p> <p>This section indicates the required culminating credential(s) for this pathway.</p>
6	<p>Sample Schedule</p> <p>This section provides a sample schedule for students pursuing this graduation pathway. Each high school will develop its own standard schedules for Jump Start students.</p>

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Jump Start Graduation Pathway Revision Policy

Jump Start graduation pathways are continuously updated. Please use the most updated graduation pathways.

Future changes to Jump Start graduation pathways will always increase student opportunities. *No one will ever need to compare an old pathway with an updated pathway.*

Please send any recommended graduation pathway changes to JumpStart@la.gov using the subject line: *Recommended Graduation Pathway Change.*

The Department reserves the right to make administrative updates to Jump Start graduation pathways, including but not limited to updating course codes, correcting errors on course codes, correcting spelling errors and other similar changes.

The Department reserves the right to delete courses no longer meeting state standards. When this occurs, the Department may add a section to the graduation pathway indicating: “Courses Deleted from this Graduation Pathway.”

The Department reserves the right to make changes on credentialing requirements based on guidance provided by the Jump Start Graduation Pathways Review Panel. (Please see the *All Things Jump Start* web portal for information about this Panel.) The Department will also maintain contact with certifying agencies and the Workforce Investment Council (WIC) to update the Statewide, Core and Complementary credentials indicated in each graduation pathway.

Louisiana educators can seek assistance with Jump Start graduation pathways at any time by emailing their questions to JumpStart@la.gov

Help Resources

Please see the updated *All Things Jump Start* web portal: <http://www.louisianabelieves.com/courses/all-things-jump-start/> The updated portal provides easier access to:

- updated Jump Start graduation pathways;
- updated industry credential fact sheets that provide comprehensive details on over 100 Jump Start industry credentials;
- guidance on how your school can implement workplace internships and virtual workplace experiences; *and much, much more.*

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Pathway-Specific Courses: Pipefitter's Helper				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Advanced Electrical and Electronics Laboratory	310384	1	✓	
Advanced Electrical Electronics	310383	1	✓	
Advanced Electricity / Electronics	110610	1	✓	
Advanced Sheet Metal	110240	1	✓	
Advanced Technical Drafting	110590	1	✓	
Advanced Wood Technology	110120	1	✓	
Ag Power Equipment	010446	1	✓	
AgriScience II	010302	1	✓	
AgriScience III	010303	1	✓	
AgriScience IV	010304	1	✓	
Agriscience - Leadership Development	010354	½	✓	
Agriscience - Leadership	010364	1	✓	
Architectural Drafting	110580	1	✓	
Auto Technician I	310312	2	✓	✓
Auto Technician I	310313	3	✓	✓
Auto Technician II	310322	2	✓	✓
Auto Technician II	310323	3	✓	✓
Automation in Manufacturing (C4M)	110258	1	✓	✓
AWS Welding I	313100	1	✓	✓
AWS Welding I	313102	2	✓	✓
AWS Welding I	313103	3	✓	✓

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AWS Welding II	313105	1	✓	✓
AWS Welding II	313106	2	✓	✓
AWS Welding II	313107	3	✓	✓
Basic Electricity I	310400	1	✓	
Basic Electricity I	310402	2	✓	
Basic Electricity I	310403	3	✓	
Basic Electricity II	310410	1	✓	
Basic Electricity II	310412	2	✓	
Basic Electricity II	310413	3	✓	
Basic Electricity/Electronics	110600	1	✓	
Basic Sheet Metals	110200	1	✓	
Basic SMAW	313120	1	✓	
Basic Technical Drafting	110560	1	✓	
Basic Wood Technology	110100	1	✓	
C4M in Agriscience I	010913	1	✓	✓
C4M in Agriscience I	010914	2	✓	✓
C4M in Agriscience I	010915	3	✓	✓
C4M in Agriscience II	010916	1	✓	✓
C4M in Agriscience II	010917	2	✓	✓
C4M in Agriscience II	010918	3	✓	✓
C4M in Agriscience III	010919	1	✓	✓
C4M in Agriscience III	010920	2	✓	✓
C4M in Agriscience III	010921	3	✓	✓

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C4M in Agriscience IV	010922	1	✓	✓
C4M in Agriscience IV	010923	2	✓	✓
C4M in Agriscience IV	010924	3	✓	✓
Carpentry Calculations	310621	1	✓	
Chemistry*	150401	1		
CMAD Drafting	110570	1	✓	✓
CMAD Drafting	110571	2	✓	✓
CMAD Drafting	110572	3	✓	✓
Construction Crafts	313726	1	✓	
Cooperative AgriScience Education I	010323	3	✓	
Cooperative AgriScience Education II	010325	3	✓	
Design, Blueprint Reading and Codes	310622	1	✓	
Desktop Publishing	040207	1	✓	
Drafting	110560	1	✓	
Drafting Design & Tech. I	311300	1	✓	
Drafting Design & Tech. I	311302	2	✓	
Drafting Design & Tech. I	311303	3	✓	
Drafting Design & Tech. II	311305	1	✓	
Drafting Design & Tech. II	311312	2	✓	
Drafting Design & Tech. II	311313	3	✓	
Electronics I	311500	1	✓	
Electronics I	311505	2	✓	
Electronics I	311503	3	✓	

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Engineering & Design I: Intro to STEM Careers	080110	1	✓	
Engineering & Design II: STEM & Industrial Problem Solving	080120	1	✓	
Engineering Design (& Product) Development	110860	1	✓	
Environmental Science*	150310	1		
General Technology Education	110010	1	✓	
Geometry*	160323	1		
Industrial and Plant Safety	311921	1	✓	
Industrial Electronics I	311800	1	✓	
Industrial Electronics I	311802	2	✓	
Industrial Electronics I	311803	3	✓	
Industrial Electronics II	311805	1	✓	
Industrial Electronics II	311812	2	✓	
Industrial Electronics II	311813	3	✓	
Industrial Machines Shop I	311900	1	✓	✓
Industrial Machines Shop I	311902	2	✓	✓
Industrial Machines Shop I	311903	3	✓	✓
Industrial Machines Shop II	311905	1	✓	✓
Industrial Machines Shop II	311912	2	✓	✓
Industrial Machines Shop II	311913	3	✓	✓
Industrial Machines Shop III	311915	1	✓	✓
Industrial Machines Shop III	311916	2	✓	✓
Industrial Machines Shop III	311917	3	✓	✓
Industrial Machines Shop IV	311918	1	✓	✓

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Industrial Machines Shop IV	311919	2	✓	✓
Industrial Machines Shop IV	311920	3	✓	✓
Introduction to Engineering Design	110800	1	✓	
Introduction to Fabrication P-Tech and Machining (C4M)	110259	1	✓	✓
Introduction to Hazardous Materials	311922	1	✓	
Introduction to Logistics	313831	1	✓	
Introduction to Manufacturing (C4M) <i>Also called: Manufacturing Process and Team Building</i>	110256	1	✓	✓
Land Design, Construction and Maintenance	010470	1	✓	
LCTCS course(s) that generate Dual Enrollment credit aligned with approved pathway courses				
Maintenance Assistant	313836	1	✓	
Management Information Systems	313834	1	✓	
Manufacturing Tools and Equipment (C4M)	110257	1	✓	✓
NCCER Carpentry I	110701/313300	1	✓	✓
NCCER Carpentry I	110702/313302	2	✓	✓
NCCER Carpentry I	110703/313303	3	✓	✓
NCCER Carpentry II	110706/313305	1	✓	✓
NCCER Carpentry II	110707/313312	2	✓	✓
NCCER Carpentry II	110708/313313	3	✓	✓
NCCER Carpentry III	110700	1	✓	✓
NCCER Carpentry III	110704	2	✓	✓
NCCER Carpentry III	110705	3	✓	✓
NCCER Carpentry IV	110709	1	✓	✓
NCCER Carpentry IV	110710	2	✓	✓

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NCCER Carpentry IV	110714	3	✓	✓
NCCER Carpentry in AgriScience	010601	1	✓	✓
NCCER Carpentry in AgriScience	010602	2	✓	✓
NCCER Carpentry in AgriScience	010603	3	✓	✓
NCCER Construction Technology	110110	1	✓	✓
NCCER Core	311720	1	✓	✓
NCCER Electrical I	110711/313400	1	✓	✓
NCCER Electrical I	110712/313402	2	✓	✓
NCCER Electrical I	110713/313403	3	✓	✓
NCCER Electrical II	110716/313405	1	✓	✓
NCCER Electrical II	110717/313412	2	✓	✓
NCCER Electrical II	110718/313413	3	✓	✓
NCCER Electrical in Agriscience	010701	1	✓	✓
NCCER Electrical in Agriscience	010702	2	✓	✓
NCCER Electrical in Agriscience	010703	3	✓	✓
NCCER Electrical in Agriscience II	010704	1	✓	✓
NCCER Electrical in Agriscience II	010705	2	✓	✓
NCCER Electrical in Agriscience II	010706	3	✓	✓
NCCER Electrical in Agriscience III	010707	1	✓	✓
NCCER Electrical in Agriscience III	010708	2	✓	✓
NCCER Electrical in Agriscience III	010709	3	✓	✓
NCCER Electrical in Agriscience IV	010710	1	✓	✓
NCCER Electrical in Agriscience IV	010711	2	✓	✓

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NCCER Electrical in Agriscience IV	010712	3	✓	✓
NCCER Heavy Equipment	313722	1	✓	✓
NCCER Heavy Equipment	313723	2	✓	✓
NCCER HVAC I	310102	2	✓	✓
NCCER HVAC I	310103	3	✓	✓
NCCER HVAC II	310112	2	✓	✓
NCCER HVAC II	310113	3	✓	✓
NCCER Industrial Maintenance Electrical & Instrumentation	313730	2	✓	✓
NCCER Instrumentation Control Mechanic I	110721/313500	1	✓	✓
NCCER Instrumentation Control Mechanic I	110722/313502	2	✓	✓
NCCER Instrumentation Control Mechanic I	110723/313403	3	✓	✓
NCCER Instrumentation Control Mechanic II	110726/313505	1	✓	✓
NCCER Instrumentation Control Mechanic II	110727/313512	2	✓	✓
NCCER Instrumentation Control Mechanic II	110728/313513	3	✓	✓
NCCER Instrumentation Control Mechanic III	313517	1	✓	✓
NCCER Instrumentation Control Mechanic IV	313520	1	✓	✓
NCCER Insulating	313830	2	✓	✓
NCCER Millwright Level I	313714	1	✓	✓
NCCER Millwright Level II	313715	1	✓	✓
NCCER Mobile Crane 1	313720	1	✓	✓
NCCER Mobile Crane 2	313721	1	✓	✓
NCCER Pipefitter I	110731/313600	1	✓	✓
NCCER Pipefitter I	110732/313602	2	✓	✓

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NCCER Pipefitter I	110733/313603	3	✓	✓
NCCER Pipefitter II	110736/313605	1	✓	✓
NCCER Pipefitter II	110737/313612	2	✓	✓
NCCER Pipefitter II	110738/313613	3	✓	✓
NCCER Plumbing I	321500	1	✓	✓
NCCER Plumbing I	321502	2	✓	✓
NCCER Plumbing I	321503	3	✓	✓
NCCER Plumbing II	321505	1	✓	✓
NCCER Plumbing II	321512	2	✓	✓
NCCER Plumbing II	321513	3	✓	✓
NCCER Welding in AgriScience I	010901	1	✓	✓
NCCER Welding in AgriScience II	010902	2	✓	✓
NCCER Welding in AgriScience III	010903	3	✓	✓
NCCER Welding Technology I	110741/313700	1	✓	✓
NCCER Welding Technology I	110742/313702	2	✓	✓
NCCER Welding Technology I	110743/313703	3	✓	✓
NCCER Welding Technology II	110748/313705	1	✓	✓
NCCER Welding Technology II	110747/313712	2	✓	✓
NCCER Welding Technology II	110748/313713	3	✓	✓
Oil & Gas	110955	1	✓	✓
Outdoor Power Equipment Technician I	312300	1	✓	
Outdoor Power Equipment Technician I	312302	2	✓	
Outdoor Power Equipment Technician I	312303	3	✓	

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Outdoor Power Equipment Technician II	312305	1	✓	
Outdoor Power Equipment Technician II	312312	2	✓	
Outdoor Power Equipment Technician II	312313	3	✓	
Principles of Engineering	110810	1	✓	
Process Instrumentation I	110915	1	✓	
Process Instrumentation II	110916	1	✓	
Process Technician I	110911	1	✓	✓
Process Technician II	110912	1	✓	✓
Process Technician I	110913	2	✓	✓
Process Technician I	110914	3	✓	✓
Process Technician II	110917	2	✓	✓
Process Technician II	110918	3	✓	✓
Process Technician III	110919	1	✓	✓
Process Technician III	110920	2	✓	✓
Process Technician III	110921	3	✓	✓
Project Management	310630	1	✓	
Rod Identifier/Runner	110232	1	✓	
Safety & Construction Skills: Year1	313724	2	✓	
Safety & Construction Skills: Year2	313725	2	✓	
Site Layout	310623	1	✓	
SMAW Groove Welds	313121	1	✓	
T-2 Safety Systems	110956	1	✓	✓
Wall & Ceiling Framing	310625	1	✓	

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Workplace Safety	311923	1	✓	
Workplace Safety	311924	2	✓	

*- Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway.

Note: *course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.*

Universal Jump Start Courses – these courses are part of every Jump Start graduation pathway

Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Accounting	040101	1	✓	
Accounting II	040104	1	✓	
Assistive Technology for the Visually Impaired	080900	1		
Braille I	080902	1		
Braille II	080903	1		
Business Communications	040305	1	✓	
Business Communications	125030	1		
Business Computer Applications (BCA)	040400	1	✓	
Business Enterprises for the Visually Impaired	080901	1		
Business Law	040303	½	✓	
Business Math*	040307	1	✓	
Career Success Skills	080407	1	✓	
Computer Technology Literacy	040220	1	✓	
Customer Service	080720	½	✓	
Customer Service	041001	1	✓	
Entrepreneurship (Business)	040110	1	✓	
Entrepreneurship	041040	1	✓	
Entrepreneurship II	041041	1	✓	
Entrepreneurship (NAF)	080685	½	✓	
Financial Literacy (formerly Financial Mathematics) INACTIVE COURSE CODE	040304	Please use course code 160345 for this course		
Financial Literacy (formerly Financial Mathematics)*	160345	1		

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First Responder	090710	½	✓	
First Responder	090711	1	✓	
First Responder	090712	2	✓	
Introduction to Business Computer Applications (IBCA)	040401	1	✓	
JAG III	042030	1	✓	
JAG IV	042040	1	✓	
JR ROTC III	170003	1		
JR ROTC IV	170004	1		
Keyboarding	040229	1	✓	
Keyboarding	040225	½	✓	
Keyboarding Applications	040226	½	✓	
Law Studies	220506	1		
Managerial Accounting	080691	½	✓	
Personal Finance	041022	½	✓	
Principles of Business	040306	1	✓	
Principles of Finance	080670	1	✓	
Principles of Marketing I	041025	1	✓	
Principles of Marketing II	041026	1	✓	
Speech I	051101	1		
Speech II	051102	1		
Technical Math*	165010	1		
Technical Reading and Writing* (NOT a TOPS Tech-qualifying course)	125010	1		
Technical Writing* [TOPS Tech-qualifying English course]	120350	1		

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Word Processing	040203	1	✓	
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*- Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway.

Note: *course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.*

Career Readiness Courses

These courses all qualify as Career Readiness courses. Every Jump Start student must take a minimum of one Carnegie credit of Career Readiness courses.

There is no limit on the number of Career Readiness course credits a student may apply to the 9 CTE course credit requirement for the Jump Start Career Diploma.

Career Readiness courses are universal courses – they apply to every Jump Start graduation pathway.

Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Advanced Career Readiness (including regionally-developed Career Readiness Courses)	080410	1	✓	
AgriScience I (Career Readiness)*	010301	1	✓	
Basic Career Readiness	080409	1	✓	
Education for Careers	080400	½	✓	
Education for Careers	080401	1	✓	
Education for Careers Part I	080405	½	✓	
Education for Careers Part II	080406	½	✓	
JAG I	042010	1	✓	
JAG II	042020	1	✓	
Journey to Careers (Career Readiness)	080403	1	✓	
Journey to Careers Part 1 (Career Readiness)	080402	½	✓	
Journey to Careers Part 2 (Career Readiness)	080404	½	✓	

*- Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway.
 Note: *course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.*

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Internships, Cooperative Courses and Virtual Workplace Experience Courses

Cooperative courses, Virtual Workplace Experience courses and Internships (*with the exception of Non-CTE Internships*) are universal courses - they apply to every Jump Start graduation pathway.

Internships

There are three types of internships:

- 1) **CDF-Qualifying Internships** where students are placed in a company that operates in one of the WIC-approved high-demand industry sectors. CDF-Qualifying Internships qualify for *both* the 6% MFP adder paid for all CTE courses *and* the 6% Career Development Fund (CDF) adder;
- 2) **CTE Internships** where students are placed in a company that operates in any other industry sectors. CTE Internships qualify *only* for the 6% MFP adder for all CTE courses; and
- 3) **Non-CTE internships** where students are placed in a non-business internship. Non-CTE Internships do not qualify for any MFP adder. Examples of Non-CTE Internships include internships at a school office, a volunteer organization or a religious organization. **Non-CTE Internships are not part of any Jump Start graduation pathway.**

WIC-Approved High-Demand Industry Sectors

Internships that qualify for the 6% CDF payment ***must*** be in a WIC-approved high-demand industry sector.

<ul style="list-style-type: none"> • Automotive Service/Repair • Construction Crafts • Culinary (<i>only</i> for students pursuing the statewide ProStart/ SafeServ credentials) 	<ul style="list-style-type: none"> • Healthcare • HVAC • Information Technology 	<ul style="list-style-type: none"> • Manufacturing • Pharmacy • Transportation and Logistics
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Internships

Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
CDF-Qualifying CTE Internship I	080202	1	✓	✓
CDF-Qualifying CTE Internship I	080200	2	✓	✓
CDF-Qualifying CTE Internship II	080203	1	✓	✓
CDF-Qualifying CTE Internship II	080201	2	✓	✓
CTE Internship I	110402	1	✓	
CTE Internship I	110403	2	✓	
CTE Internship II	110404	1	✓	
CTE Internship II	110405	2	✓	
Non-CTE Internships are <u>not</u> part of any Jump Start graduation pathway.				
Non-CTE Internship I	400200	1		
Non-CTE Internship I	400210	2		
Non-CTE Internship II	400220	2		
Non-CTE Internship II	400230	1		

Virtual Workplace Experience Courses approved for 2016-2017
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Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Virtual Workplace Experience I	080204	½	✓	
Virtual Workplace Experience I	080205	1	✓	
Virtual Workplace Experience II	080206	½	✓	
Virtual Workplace Experience II	080207	1	✓	

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Cooperative Courses				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Cooperative AgriScience Education I	010323	3	✓	
Cooperative AgriScience Education II	010325	3	✓	
Cooperative Family and Consumer Services	100800	3	✓	
Cooperative Health Occupations	090004	3	✓	
Cooperative Marketing Education I	041010	3	✓	
Cooperative Marketing Education II	041011	3	✓	
Cooperative Office Education	040205	3	✓	
Cooperative Technology Education	110098	3	✓	
General Cooperative Education I	080300	3	✓	
General Cooperative Education I	080300	3	✓	

Culminating Credential(s)

To graduate using a Regional graduation pathway students must attain: 1) one Core credential or the equivalent LCTCS Certificate of Technical Studies / Technical Diploma; and 2) two Complementary credentials.

Students who graduate with Regional pathway credentials earn their school 100 accountability points.

Culminating Credential(s) / Certifying Industry Agency(ies)	<p>Core Credentials: students must attain one credential from the list below:</p> <p>Completion of NCCER Core <i>plus</i> completion of the NCCER Pipefitter Level 1 modules as indicated in the table below</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="background-color: #fce4d6;">NCCER Pipefitter Level 1 Certification Modules</th> </tr> <tr> <th style="width: 5%;">#</th> <th style="width: 65%;">Module Name</th> <th style="width: 10%;">Hrs</th> <th style="width: 20%;">Performance Test?</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td>Orientation to the Trade</td><td style="text-align: center;">5</td><td style="text-align: center;">No</td></tr> <tr><td style="text-align: center;">2</td><td>Pipefitting Hand Tools</td><td style="text-align: center;">20</td><td style="text-align: center;">Yes</td></tr> <tr><td style="text-align: center;">3</td><td>Pipefitting Power Tools</td><td style="text-align: center;">15</td><td style="text-align: center;">Yes</td></tr> <tr><td style="text-align: center;">4</td><td>Oxyfuel Cutting</td><td style="text-align: center;">17.5</td><td style="text-align: center;">Yes</td></tr> <tr><td style="text-align: center;">5</td><td>Ladders and Scaffolds</td><td style="text-align: center;">12.5</td><td style="text-align: center;">Yes</td></tr> <tr><td style="text-align: center;">6</td><td>Motorized Equipment I</td><td style="text-align: center;">10</td><td style="text-align: center;">Yes</td></tr> <tr> <td colspan="2" style="text-align: right;">Total Level 1 Certification Hours*</td> <td style="text-align: center;">80</td> <td rowspan="2" style="vertical-align: middle;">* - not including NCCER Core (72.5 hours)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Helper Certification Hours*</td> <td style="text-align: center;">57.5</td> </tr> </tbody> </table>	NCCER Pipefitter Level 1 Certification Modules				#	Module Name	Hrs	Performance Test?	1	Orientation to the Trade	5	No	2	Pipefitting Hand Tools	20	Yes	3	Pipefitting Power Tools	15	Yes	4	Oxyfuel Cutting	17.5	Yes	5	Ladders and Scaffolds	12.5	Yes	6	Motorized Equipment I	10	Yes	Total Level 1 Certification Hours*		80	* - not including NCCER Core (72.5 hours)	Total Helper Certification Hours*		57.5
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	<p>Complementary Credentials: students must attain two credentials from the list below:</p> <p>Recommended Safety Complementary Credentials</p> <p style="background-color: yellow;">Students may apply only one Safety Complementary Credential towards their graduation requirements</p> <ol style="list-style-type: none"> 1) Basic Safety Orientation - Association of Reciprocal Safety Councils 2) First Aid for Students Certification - Red Cross or approved equivalent* 3) OSHA 10 – General Industry - OSHA Certificate of Completion 																																							

	<p>4) OSHA 10 – Construction - OSHA Certificate of Completion</p> <p>* - all First Aid certifications must include CPR and AED. To give districts and charter schools maximum flexibility to comply with the First Aid requirements of HB 542, districts and charter schools can provide the Jump Start team with evidence that the First Aid certification they're using includes all required components as well as a practical certification.</p> <p>Recommended Computer Literacy Complementary Credentials</p> <p>5) Internet and Computing Core Certification (IC³) – Certiport</p> <p>6) Microsoft Excel Specialist – Microsoft and Certiport</p> <p>7) Microsoft PowerPoint Specialist – Microsoft and Certiport</p> <p>8) Microsoft Word Specialist – Microsoft and Certiport</p> <p>9) Microsoft Office Specialist Other – Microsoft and Certiport</p> <p>Other Recommended Complementary Credentials</p> <p>10) Certified Guest Service Professional - American Hospitality & Lodging Association</p> <p>11) National Career Readiness Certificate WorkKeys Silver, Gold or Platinum - ACT</p> <p>Additional Approved (But Not Recommended) Complementary Credentials</p> <p>12) OSHA 3115 Fall Protection – OSHA Certificate of Completion</p> <p>13) QuickBooks – Certiport (issue: this is a very demanding credential; students are encouraged to attain this credential, but it will be significantly more challenging to attain than the recommended Complementary credentials)</p>
<p>Credentials No Longer Authorized for this Pathway</p>	<p>Complementary Credentials No Longer Approved for this Pathway</p> <ul style="list-style-type: none"> • HAZWOPER (not a Jump Start credential) • OSHA 7300 Understanding Confined Space Entry – OSHA Certificate of Completion • OSHA 7415 Construction Industry Hazards – OSHA Certificate of Completion <p>See the Jump Start Policy Regarding OSHA Courses / Credentials (available for download from the Jump Start website) for additional details</p>

Pathway	Pipefitter's Helper
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Sample Schedule

This schedule is *only one example* of how a student can meet the requirements of this pathway and graduate on time with the required culminating credential(s).
 Each high school will develop its own standard schedules for Jump Start students based on the courses available to its students (in school, at the local technical college, or via Course Choice).

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Algebra I English I Environmental Science Civics IBCA Journey to Careers Physical Education I	Business Math English II Biology Agriscience I NCCER Core Physical Education II / Health <i>Elective Course</i>	Financial Literacy English III U.S. History Agriscience II NCCER Pipefitter I (2 credits) <i>Elective Course</i>	Math Essentials Business English NCCER Pipefitter II (2 credits) <i>Elective Course</i> <i>Elective Course</i> <i>Elective Course</i>
7 credits	7 credits	7 credits	7 credits
Credentials Earned by this Hypothetical Student	Core Credential	Complementary Credentials	
	NCCER Core <i>plus</i> NCCER Pipefitter Level 1 Modules indicated above	1) Red Cross First Aid and CPR for Students Certification (or approved equivalent) 2) OSHA 10 – General Industry	
<i>Bold italicized courses count as one of the required 9 Carnegie credits for graduation via this pathway</i>			

Every Pathway Can be Adapted for Students Meeting Act 833 (2014) Eligibility Criteria

Every Jump Start graduation pathway can be adapted for students with disabilities who meet Act 833 (2014) eligibility criteria. Students must complete nine credits of CTE courses from the courses listed in the pathway. The IEP team has the authority to determine the credentialing level a student must achieve for the purposes of graduation (analogous to using individual performance criteria to meet EOC requirements for the purposes of graduation).

IEP teams with questions about how to adapt this graduation pathway for their student should contact JumpStart@la.gov