

Ministry of Education
Ministry of Training, Colleges and Universities

Apprenticeship Subject Pathways

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Une publication équivalente est disponible en français sous le titre suivant : *Itinéraires d'apprentissage de métiers*.

This publication is available on the website of the Ministry of Education and the Ministry of Training, Colleges and Universities, at <http://www.edu.gov.on.ca>.

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INTRODUCTION

Apprenticeship Subject Pathways is a resource that will help educators, students, and parents determine which English, mathematics, and science secondary school courses would most benefit students who intend to begin an apprenticeship upon graduation. The pathways were arrived at by aligning the academic skills inventories for trades that are identified in Evaluating Academic Readiness for Apprenticeship Training (EARAT), a series of documents developed by the Ministry of Training, Colleges and Universities, with the learning expectations that are outlined in the Ontario secondary school curriculum policy documents for English, mathematics, and science.

The courses identified in this document are not mandatory for entrance into the trades for which they are being recommended, nor will following these course recommendations guarantee success in a chosen trade.

While the main purpose of *Apprenticeship Subject Pathways* is to provide information about the kinds of academic achievement advisable for preparing for an apprenticeship, it is also hoped that this resource guide will foster greater understanding of the trades and of the academic skills that journeypersons need to do their jobs.

Subject pathway recommendations are provided for 56 trades, which are divided among four sectors: construction (21), industrial (12), motive power (12), and service (11). Each subject pathway chart in this document indicates the English, mathematics, and/or science courses recommended in each of Grades 9 to 12 in preparation for one of these trades. This alignment of secondary school courses with apprenticeship destinations is possible because of the clear standards set out in both EARAT and the Ontario secondary school curriculum.

Note that students in Grades 9 and 10 can establish a firm foundation for their apprenticeship goal by choosing either the academic or the applied course in English, mathematics, and/or science. For students in Grades 11 and 12, on the other hand, one specific course in each of these subjects, where applicable, is recommended.

Entry into an apprenticeship requires the completion of Grade 8, Grade 10, or Grade 12, depending on the trade. The grade requirement for each trade is identified in this document at the top of the pathway chart for that trade. Note, however, that employers in any trade may require that individuals be secondary school graduates as a condition of employment.

Although the majority of the course recommendations made in this document are for workplace preparation courses, there are some exceptions. For instance, several trades in the industrial sector require complex skills in mathematics. College preparation mathematics courses are, therefore, identified for apprenticeships in these trades. Another exception concerns the child and youth worker and early childhood educator apprenticeships. While college preparation courses are the primary English course recommendations for these trades, additional English courses are also recommended. These additional courses are identified because they would enable students to further develop the communication skills that are needed in these trades.

Experiential learning opportunities are also identified on the pathway charts. These opportunities, which allow students in Grades 9 to 12 to explore a career in a trade, include job shadowing, work experience, cooperative education, and the Ontario Youth Apprenticeship Program (OYAP). In OYAP students who are 16 years of age or older and who have completed 16 credits towards their Ontario Secondary School Diploma can continue to meet their diploma requirements as they complete apprenticeship training.

The Ministry of Training, Colleges and Universities develops new apprenticeships as they are required by business and industry. Though apprenticeships in more than 130 trades are available in Ontario, nearly 90 per cent of apprentices in the province are completing apprenticeship training in the 56 trades focused on in this document.

More information about apprenticeship opportunities in specific areas of Ontario is available from the local apprenticeship offices listed on page vi.

The Ontario curriculum has many courses in addition to those listed in this document that support student success in apprenticeships. Examples are information technology in business, technological education, and workplace preparation science courses.

Students, parents, guidance counsellors, teacher-advisers, and classroom teachers may use this document as an aid in selecting the most appropriate courses for an apprenticeship destination. This document should not, however, be used as a guide for college entrance requirements for technologist or technician programs.

APPRENTICESHIP FACTS

Apprenticeship – What is it and how does it work?

Apprenticeship is a hands-on training program for people who want to work in skilled trades or occupations. About 90 per cent of apprenticeship involves on-the-job training by sponsors of training or employers. The remainder involves related theoretical training, usually obtained at a college of applied arts and technology or another approved training delivery agency. Training agreements between apprentices and their training sponsor or employer are prepared by training consultants of the Ministry of Training, Colleges and Universities. In accordance with legislation, each training agreement is an individualized contract or training plan between a person who wants to learn a skilled trade and a training sponsor or an employer. Apprentices and training sponsors or employers benefit from apprenticeship training. Apprentices learn to become qualified tradespeople or “journeypersons” while training sponsors or employers gain highly skilled employees with up-to-date knowledge and work techniques. Jobs in skilled trades provide challenging work and good careers.

How long does an apprenticeship last?

Most apprenticeships take between two to five years to complete, depending on the trade. At the time of registration, prior education and related work experience are considered where appropriate to potentially reduce the length of the program. Flexible in-school training options are generally available to meet the specific needs of apprentices and their training sponsor or employer.

How do I become an apprentice?

When a person who wants to be an apprentice has found a training sponsor or employer willing to engage in apprenticeship training, either the person or the training sponsor or employer should contact the local apprenticeship office (see next page). A training consultant will arrange a meeting at the workplace to assess the ability of the training sponsor or employer to train, assess the person, prepare the training agreement or contract, and initiate the training.

Can a student start an apprenticeship while attending high school?

Yes. The Ontario Youth Apprenticeship Program (OYAP) offers students who have completed Grade 10 an opportunity to become registered apprentices while finishing high school. Eligible students should contact their guidance counsellor, technical director, or local apprenticeship office for more information.

What is “Interprovincial” designation?

The Interprovincial Standards Program or Red Seal Program was established to provide greater labour mobility for skilled workers who wish to move from one part of Canada to another. It encourages the standardization of provincial/territorial training and certification programs. A Red Seal certificate is recognized by provinces participating in the program. Many Ontario trades are part of the Red Seal Program. In those trades, people who are eligible to challenge the trade examinations may, if successful, receive a Certificate of Qualification with a distinctive red seal that allows them to work in other provinces and territories.

APPRENTICESHIP OFFICES

For further information about the Ontario Youth Apprenticeship Program (OYAP), contact your guidance counsellor, cooperative education teacher, or technological education teacher.

For further information about apprenticeship opportunities in your area, contact the appropriate Ministry of Training, Colleges and Universities apprenticeship office.

Central District

Toronto (416) 326-5800
Pickering (905) 837-7721
Mississauga (905) 279-7333
Barrie (705) 737-1431

Western District

Hamilton (905) 521-7764
Brantford (519) 756-5197
St. Catharines (905) 704-2991
Owen Sound (519) 376-5790
London (519) 675-7788
Sarnia (519) 542-7705
Waterloo (519) 571-6009
Windsor (519) 973-1441
Chatham (519) 354-2766

Eastern District

Ottawa (613) 731-7100
Brockville (613) 342-5481
Cornwall (613) 938-9702
Kingston (613) 545-4338
Pembroke (613) 735-3911
Peterborough (705) 745-1918
Belleville (613) 968-5558

Northern District

Sault Ste. Marie (705) 945-6815
North Bay (705) 495-8515
Sudbury (705) 564-3030
Timmins (705) 235-1950
Thunder Bay (807) 345-8888
Kenora (807) 468-2879

Apprenticeship Website Addresses:

www.edu.gov.on.ca
www.youthjobs.gov.on.ca

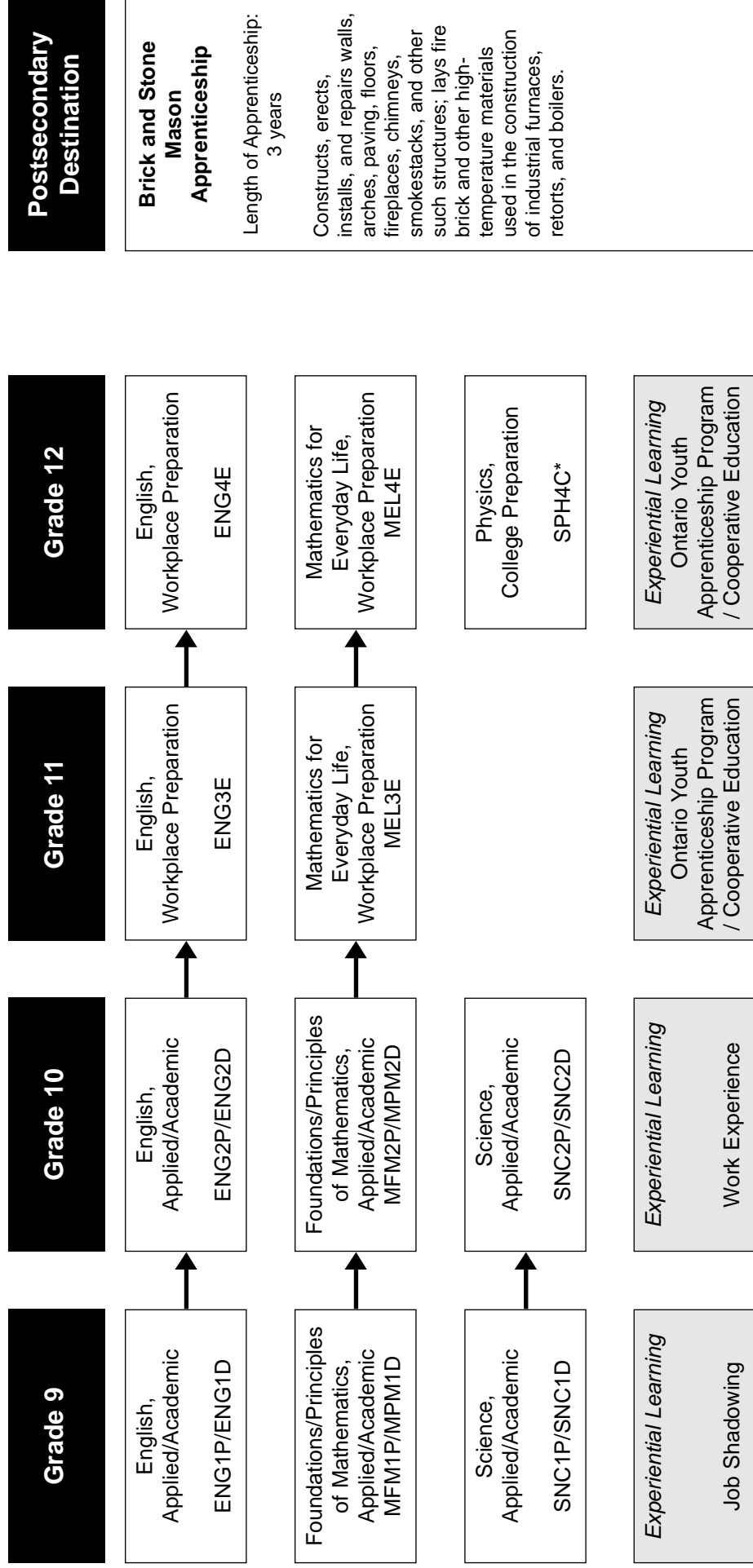
Training Hotline: . . . 1-888-JOBGROW
1-800-387-5656

Toronto Area (416) 326-5656

CONSTRUCTION SECTOR

Brick and Stone Mason

Though the academic requirement for an apprenticeship in this trade is Grade 8, courses for higher grades are provided for the information of students pursuing secondary school graduation.



The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

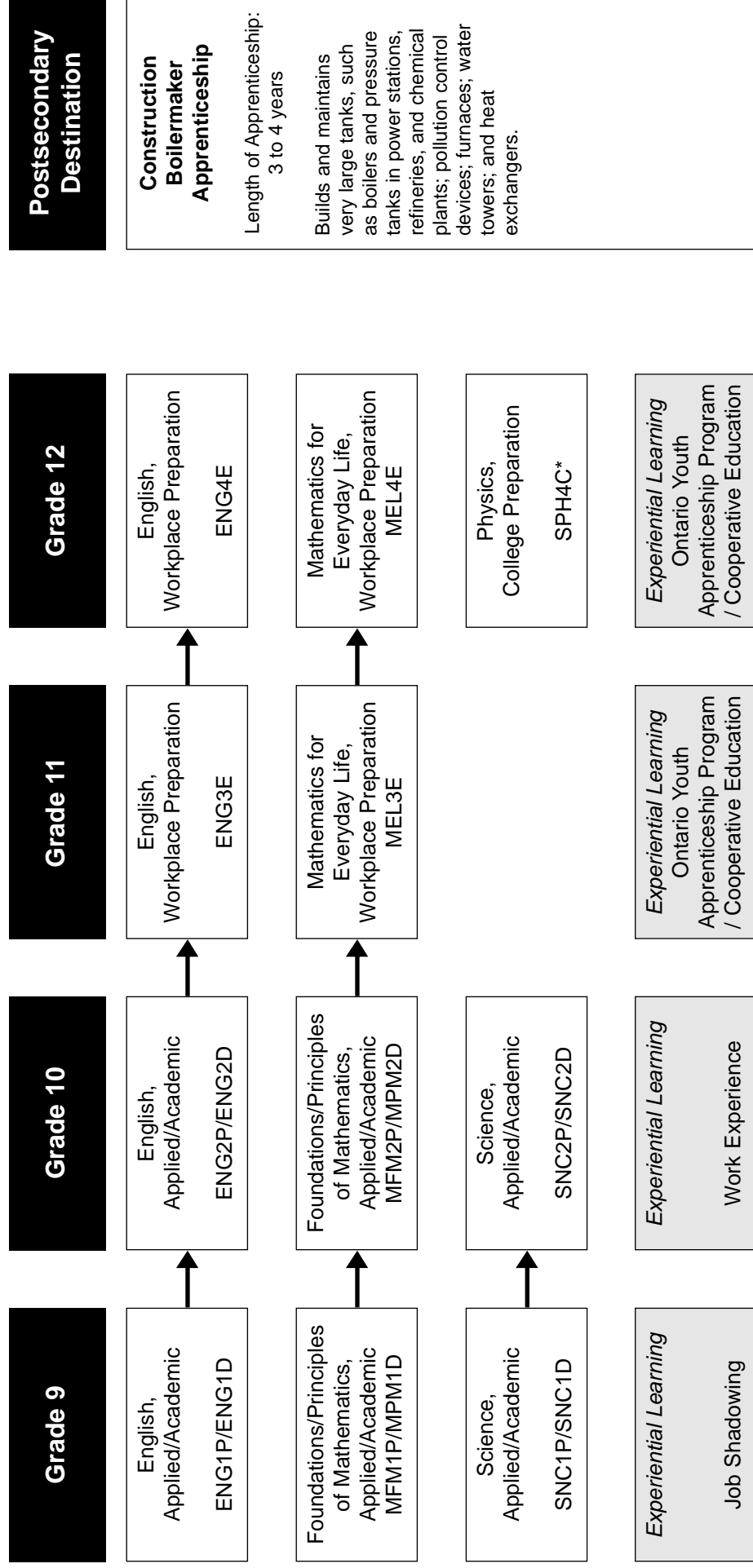
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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

* This course is beneficial for a very limited number of concepts contained in its expectations; these may be acquired through self-study.

Construction Boilermaker

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.



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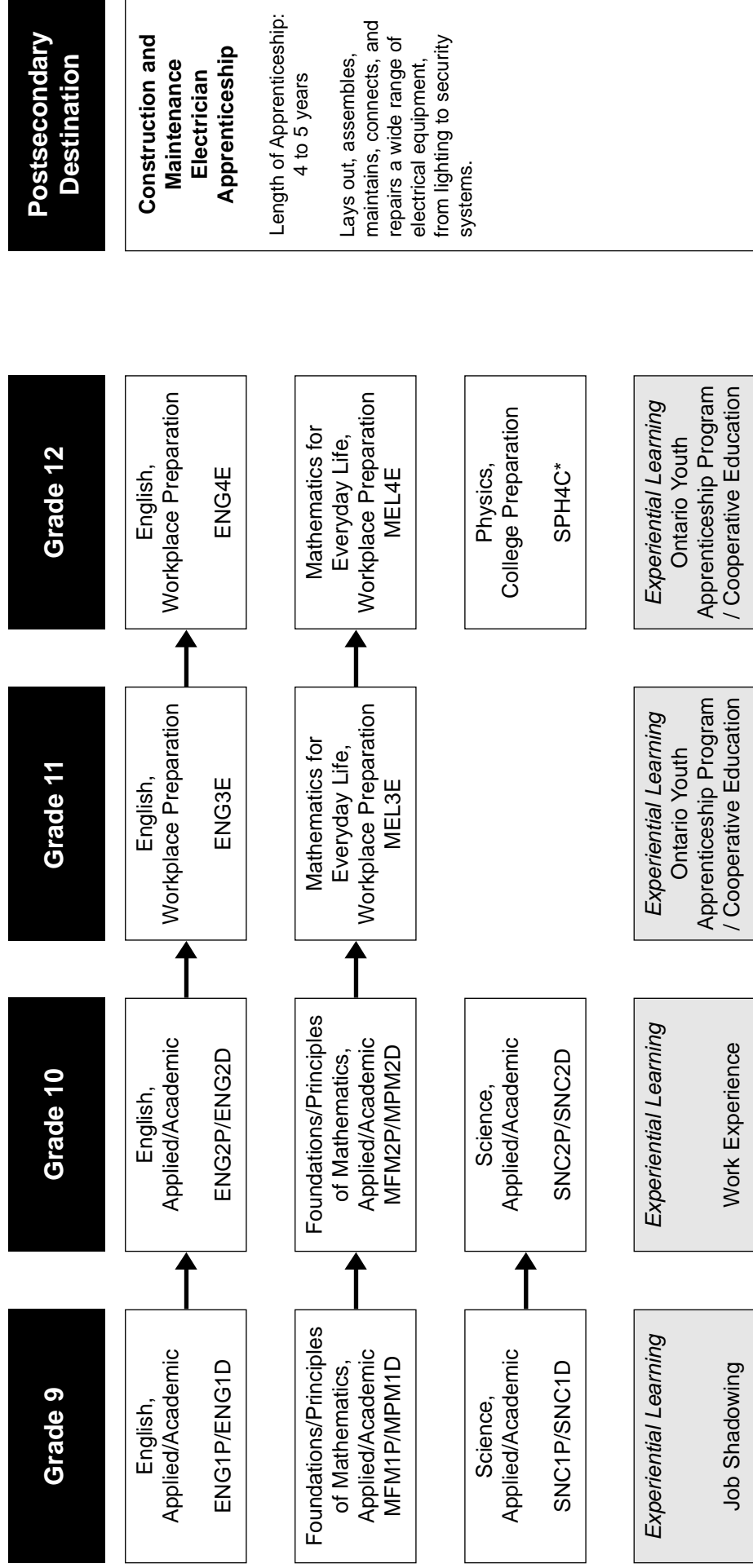
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Construction and Maintenance Electrician

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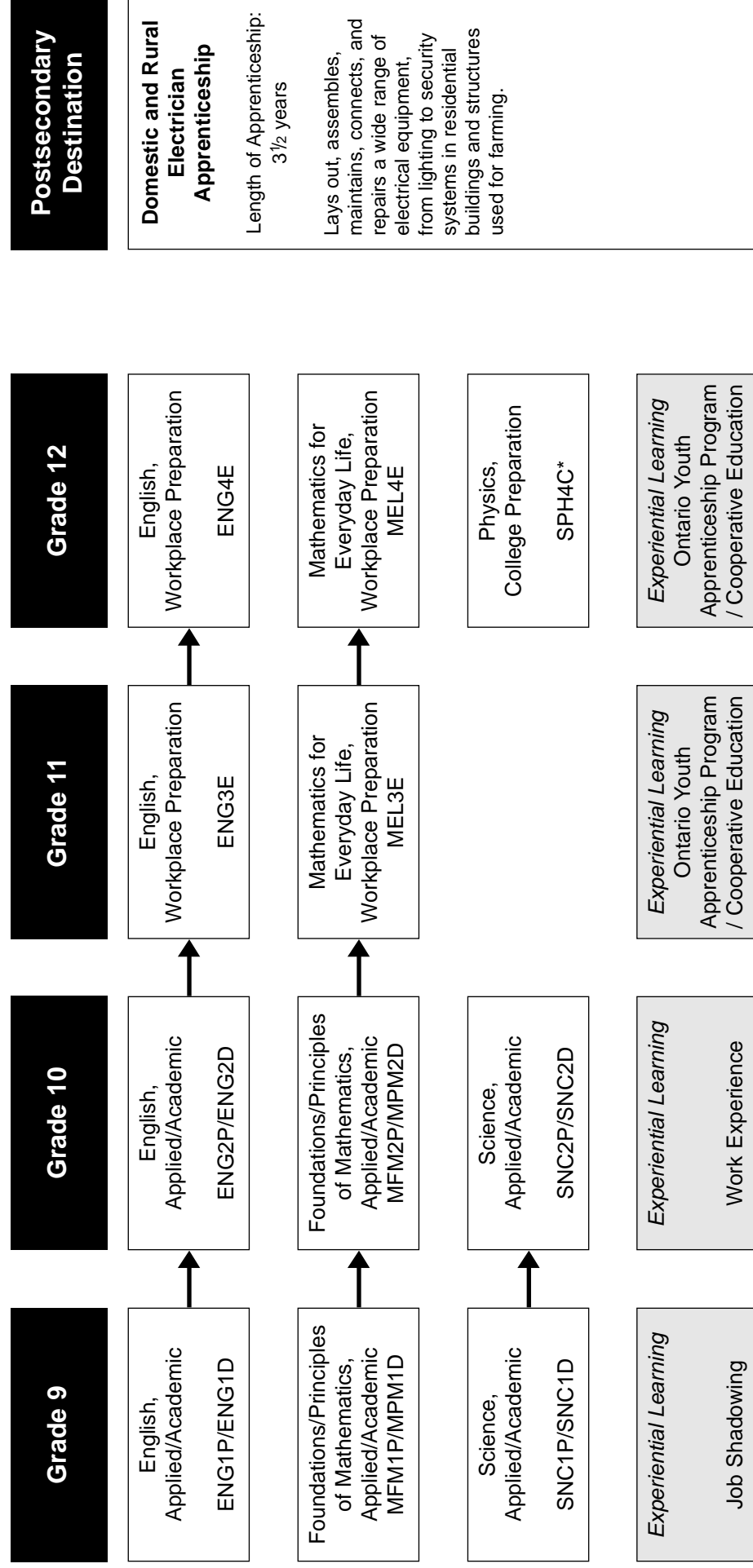
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Domestic and Rural Electrician

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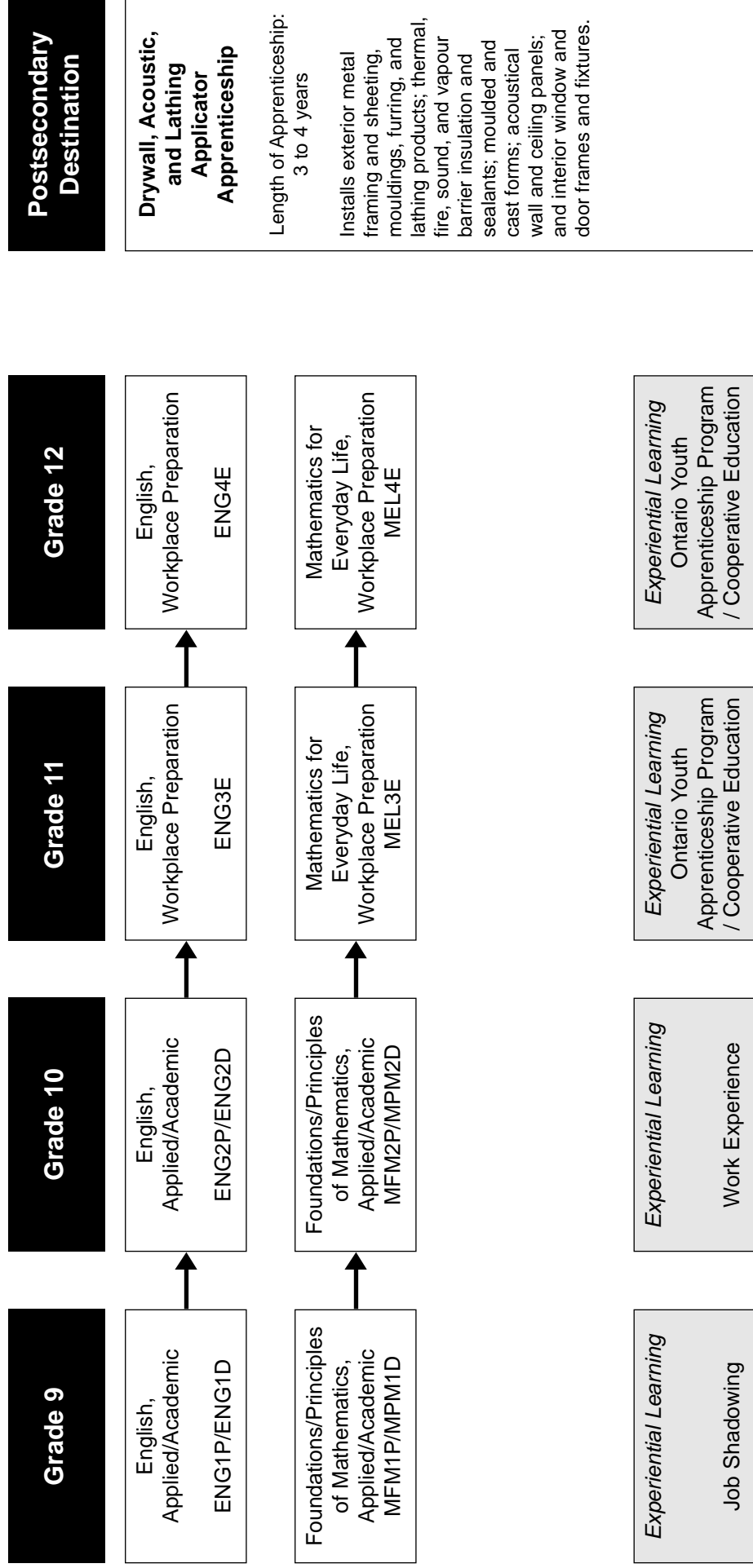


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Drywall, Acoustic, and Lathing Applicator

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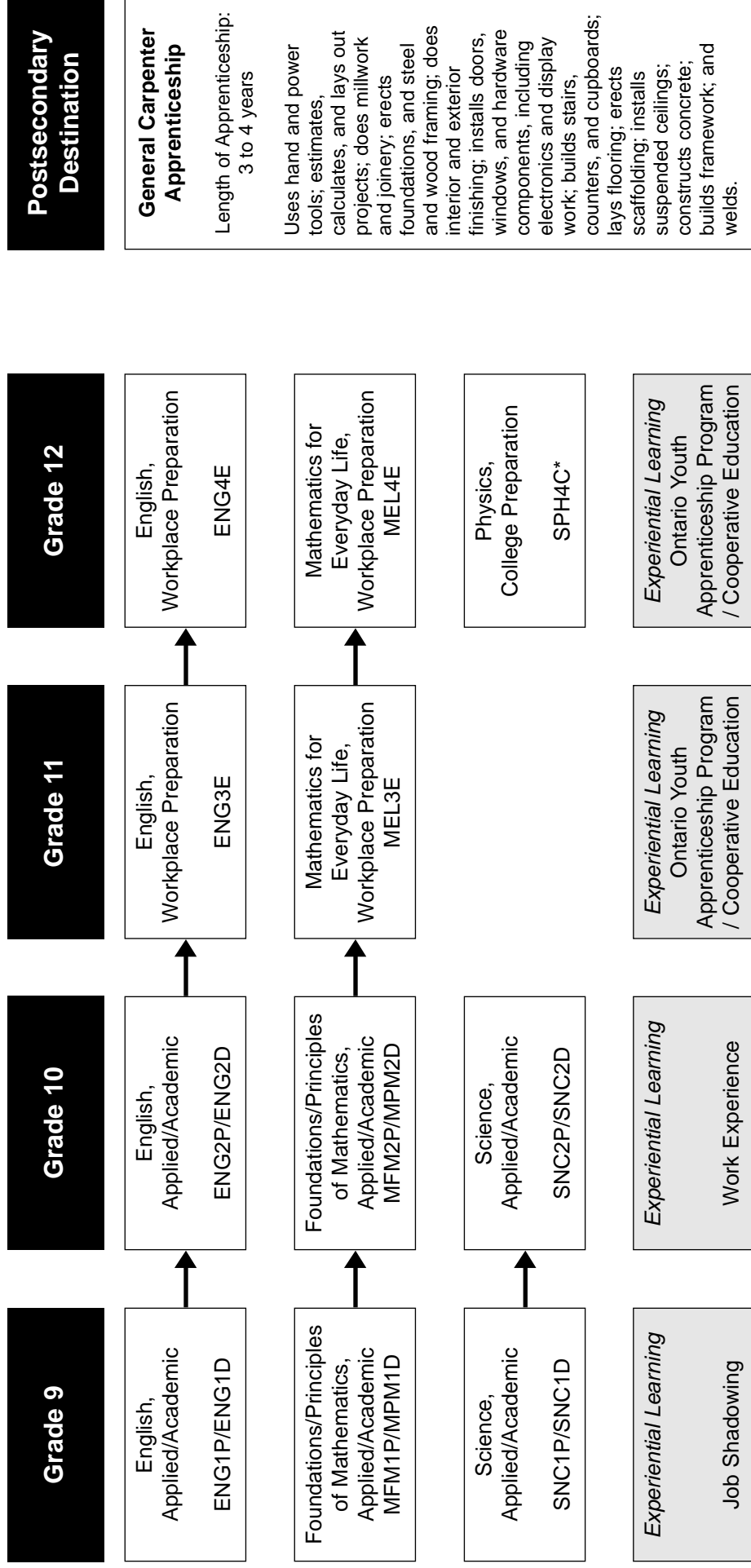
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General Carpenter

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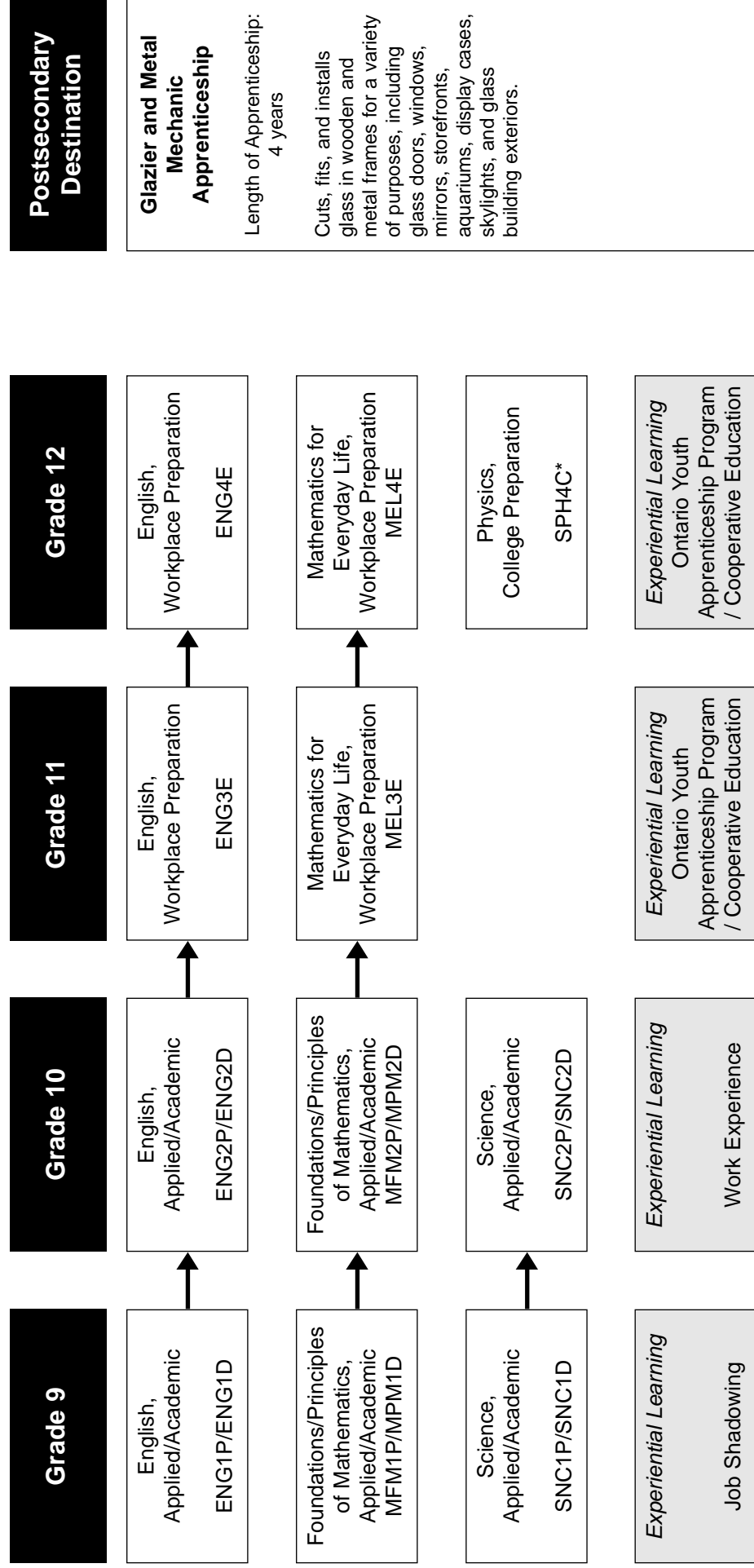


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Glazier and Metal Mechanic

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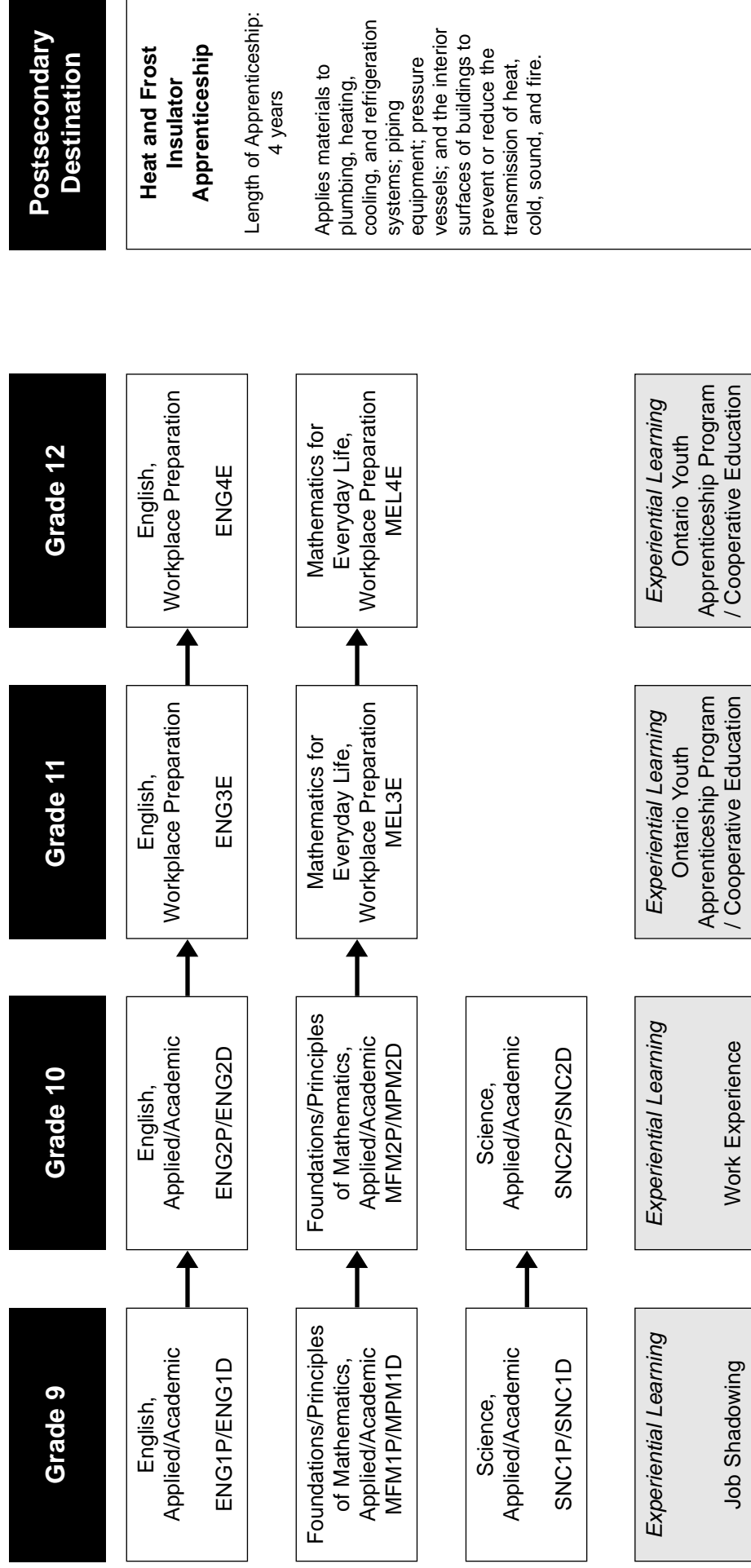
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Heat and Frost Insulator

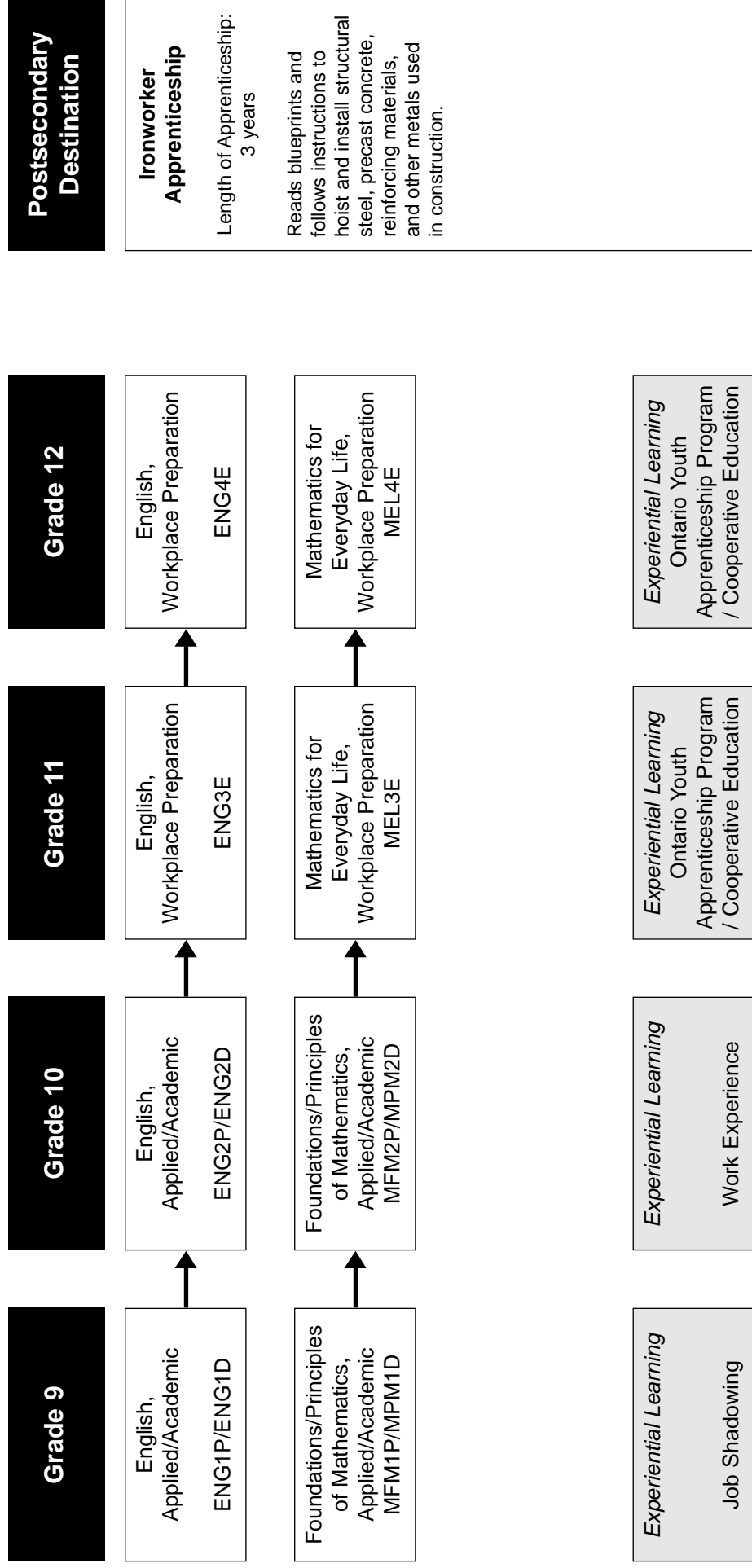
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Ironworker

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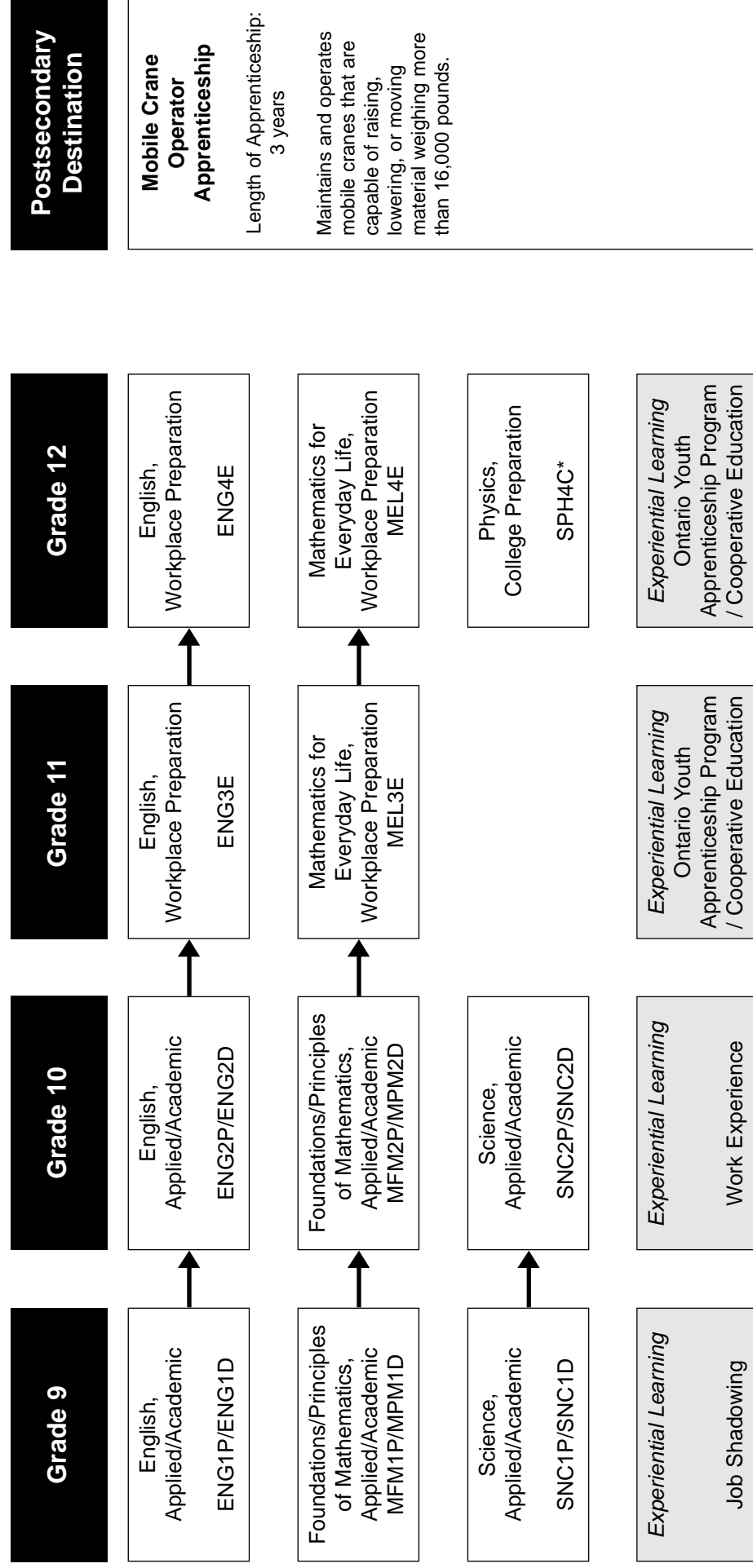
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Mobile Crane Operator

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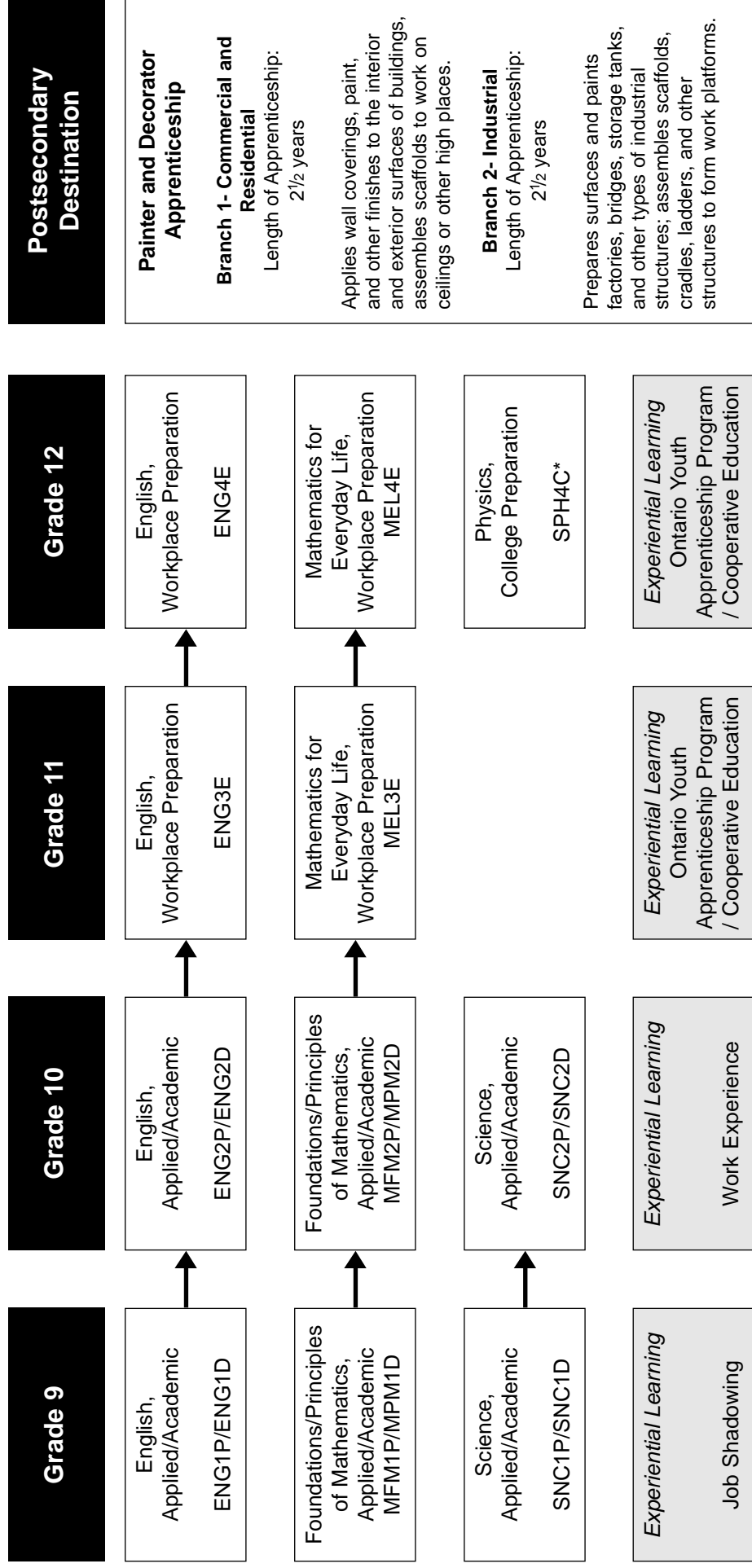
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Painter and Decorator (Branches 1 and 2)

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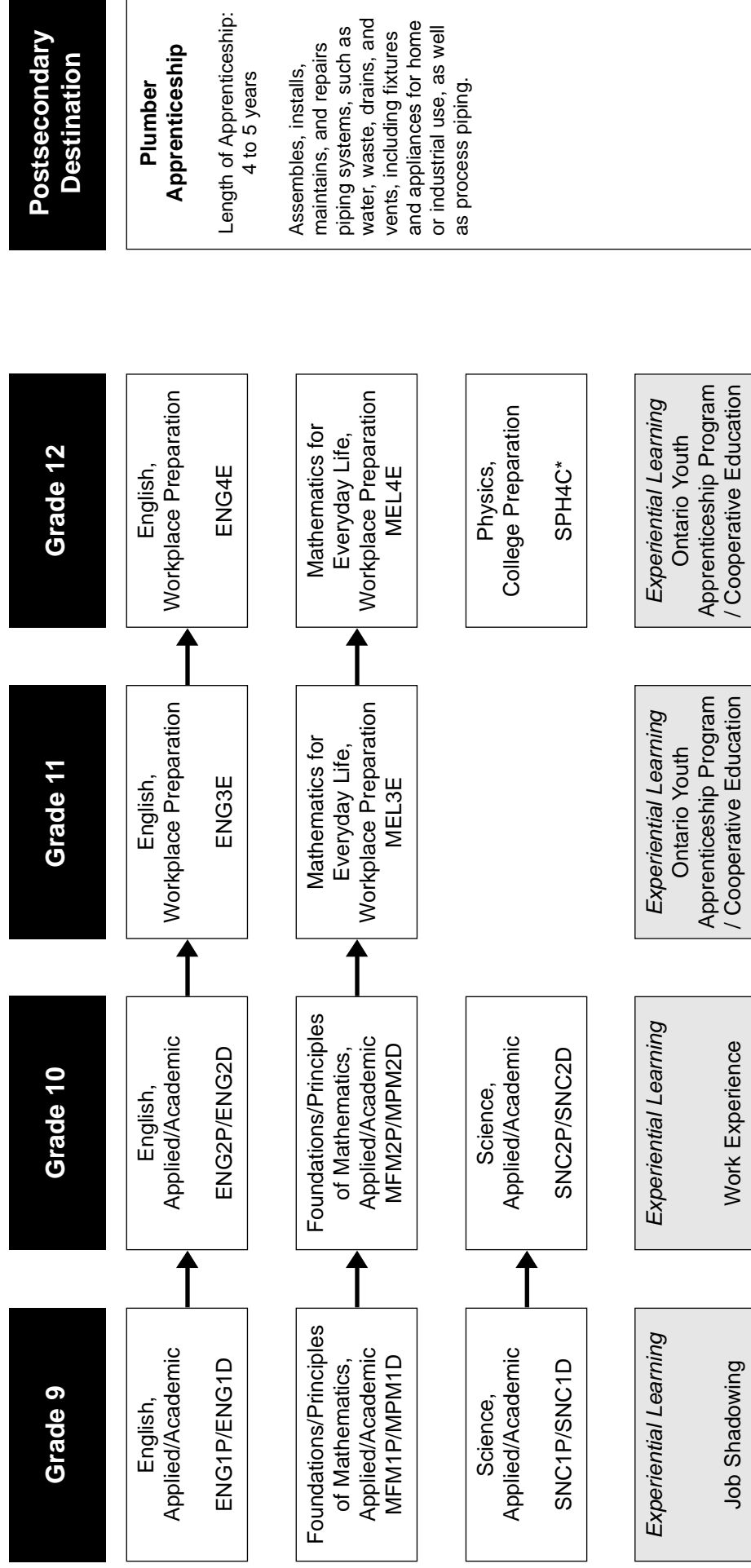
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Plumber

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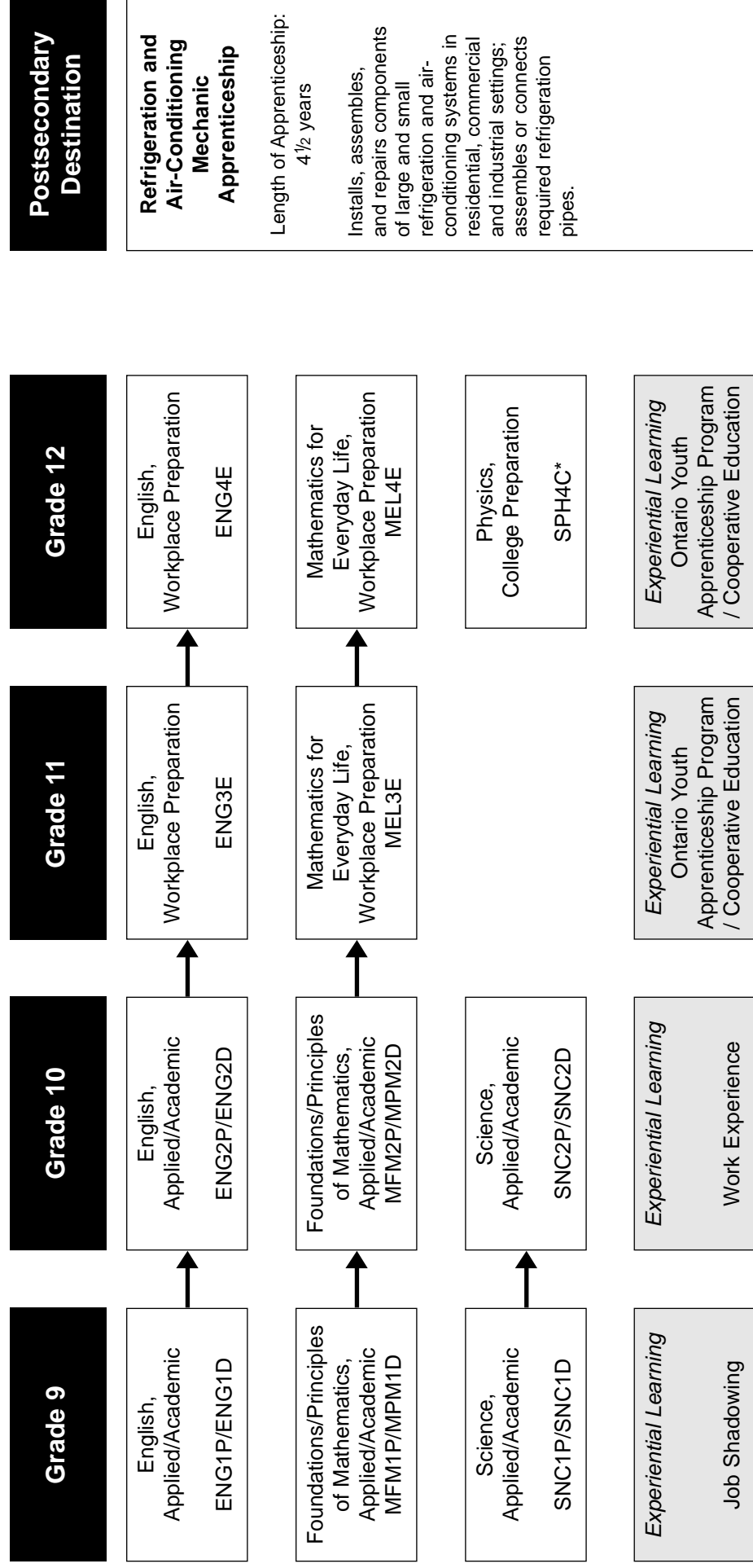


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Refrigeration and Air-Conditioning Mechanic

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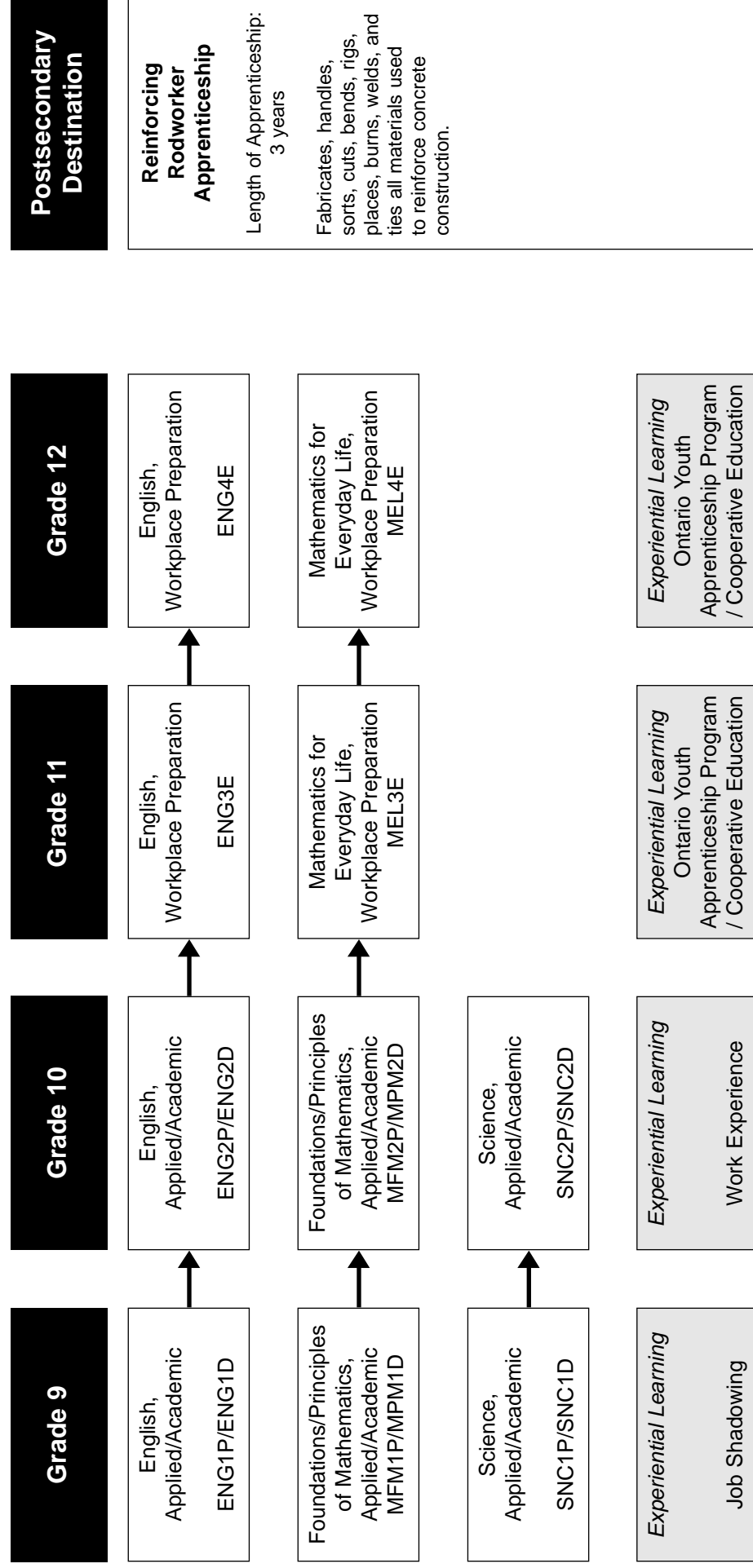
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Reinforcing Rodworker

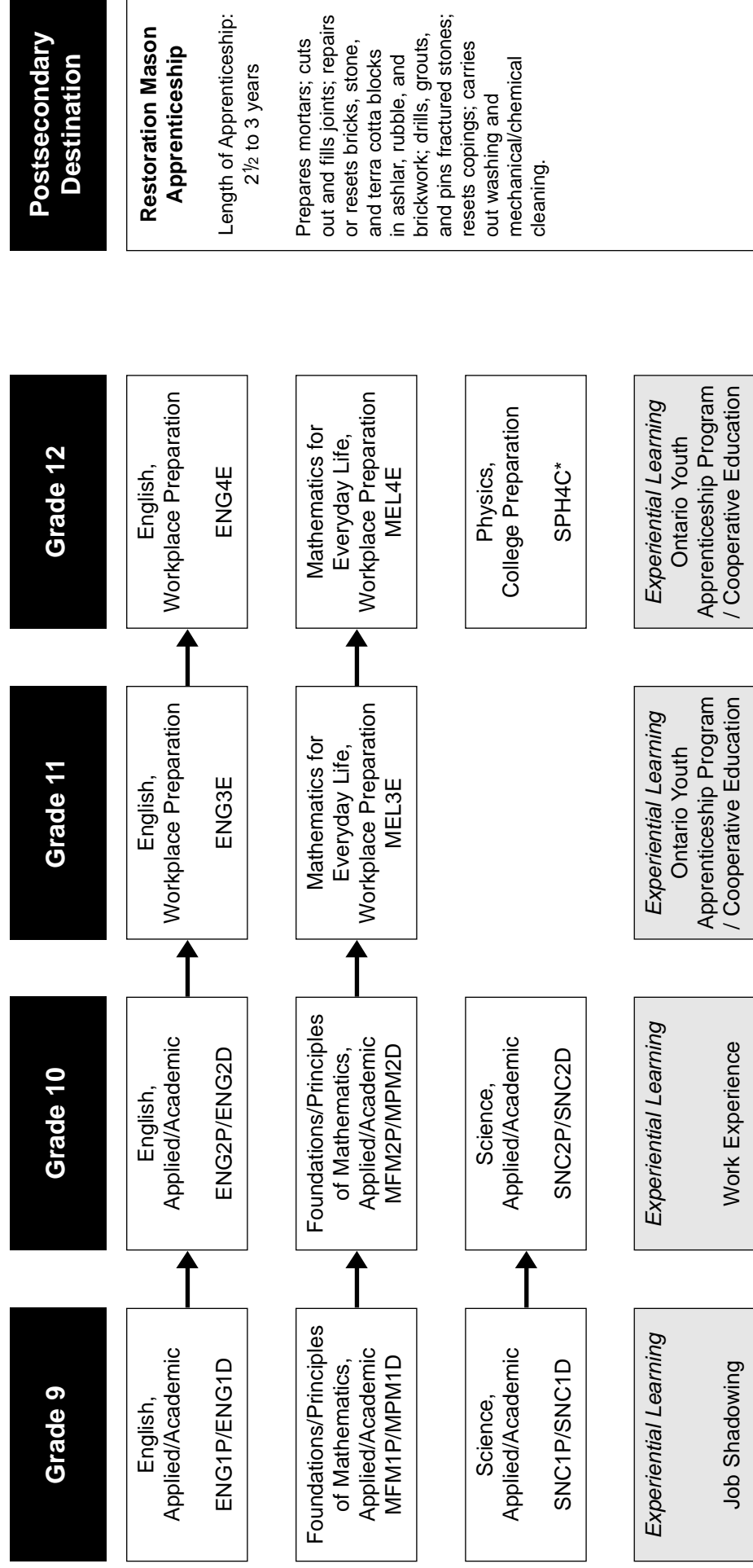
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Restoration Mason

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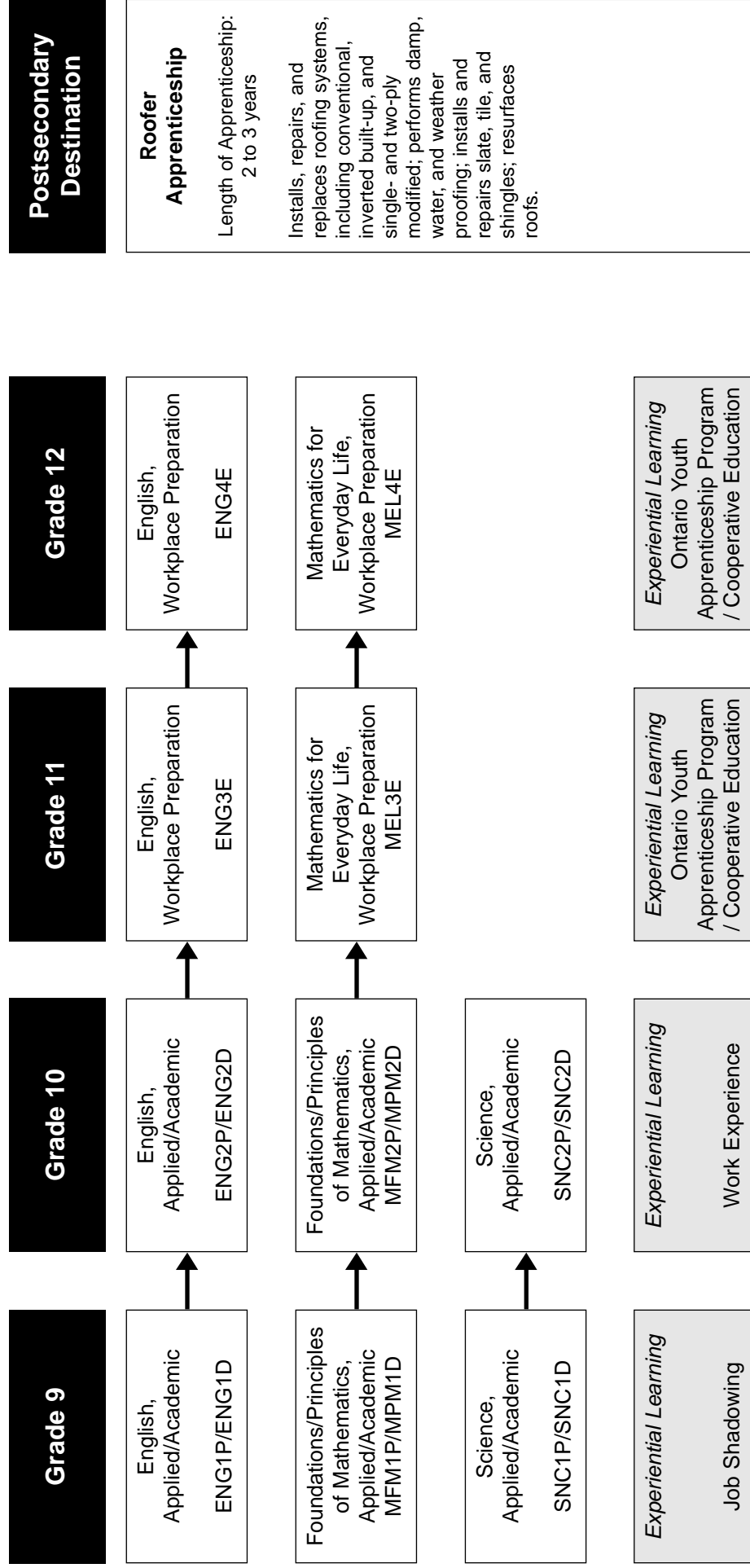
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Roofer

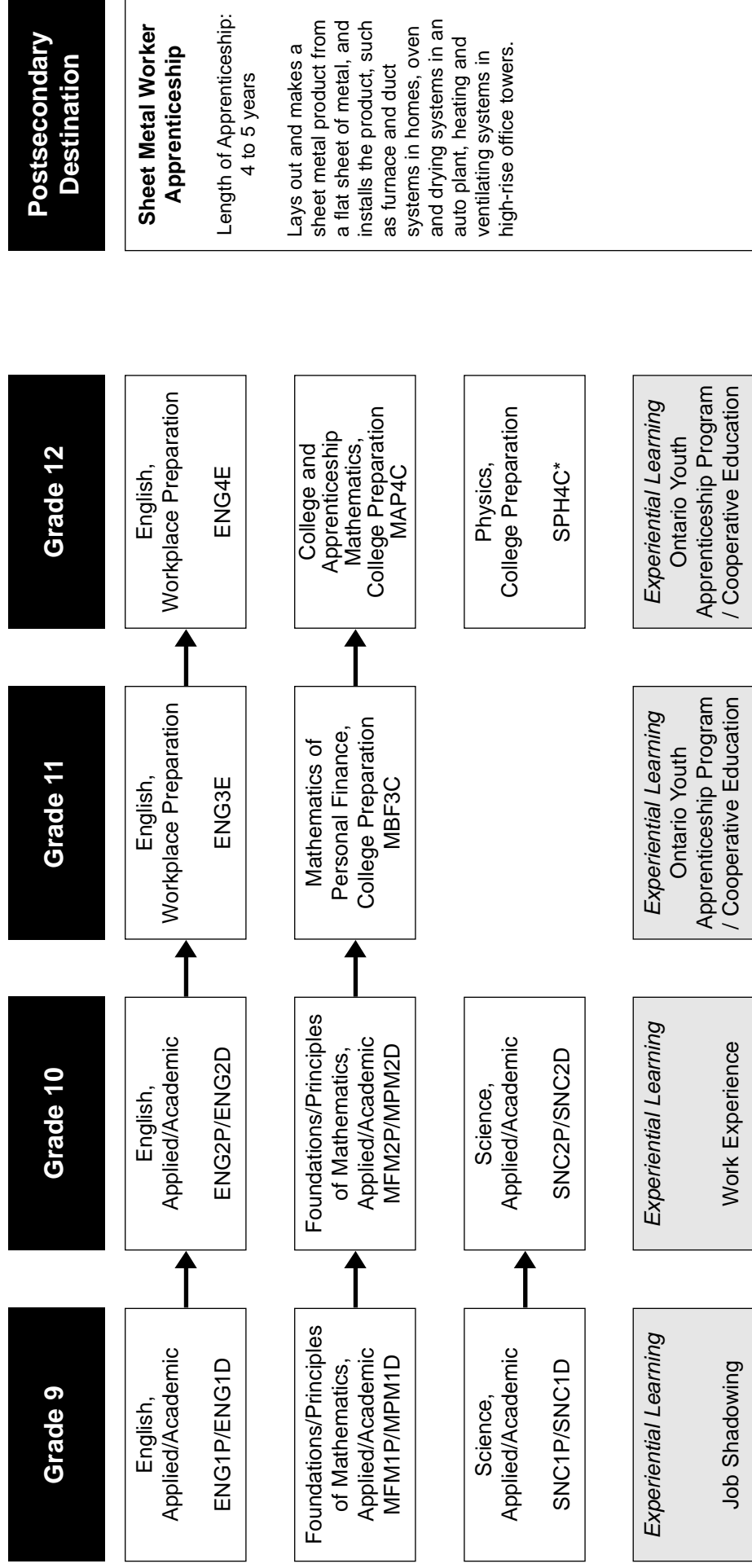
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Sheet Metal Worker

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.



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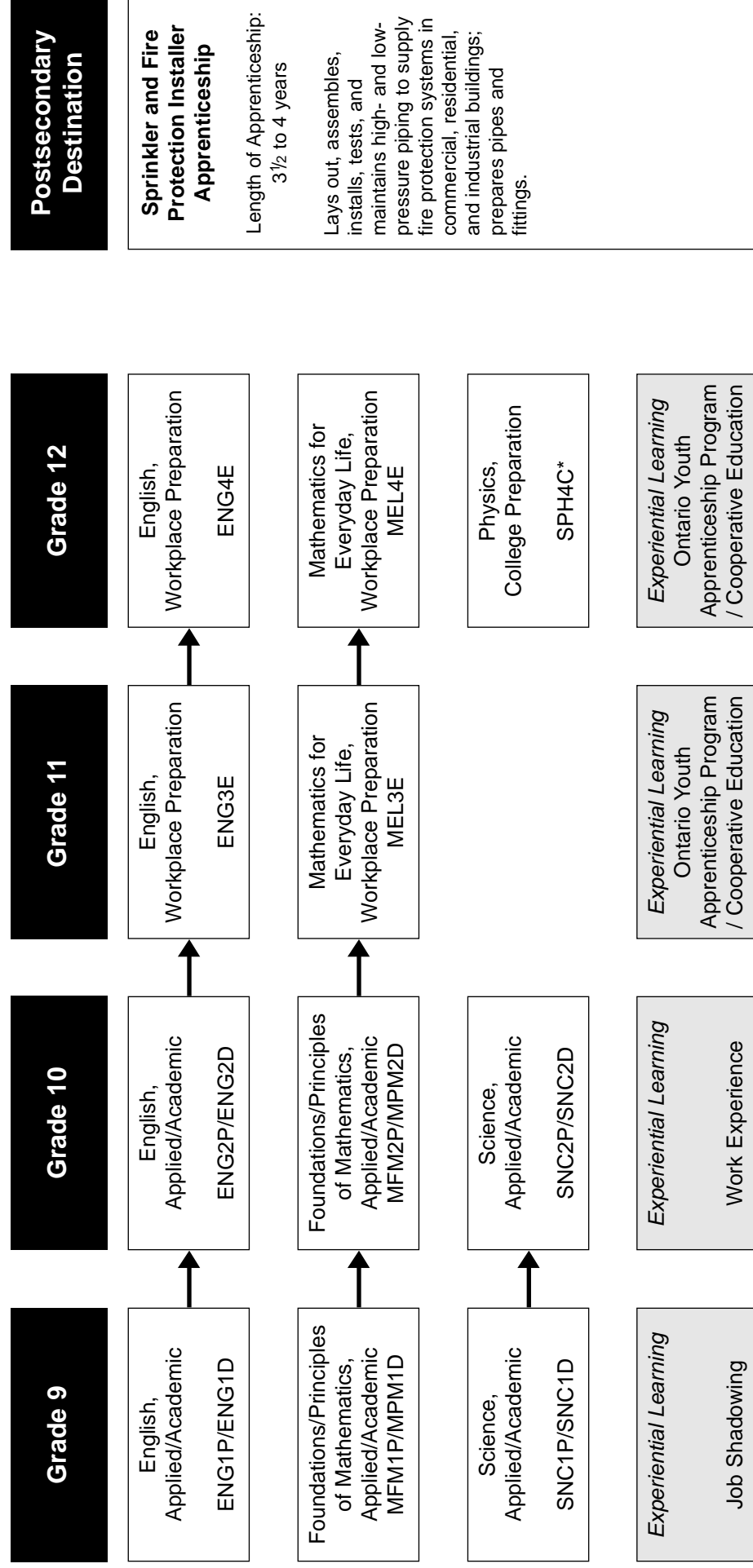
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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

* This course is beneficial for a very limited number of concepts contained in its expectations; these may be acquired through self-study.

Sprinkler and Fire Protection Installer

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.



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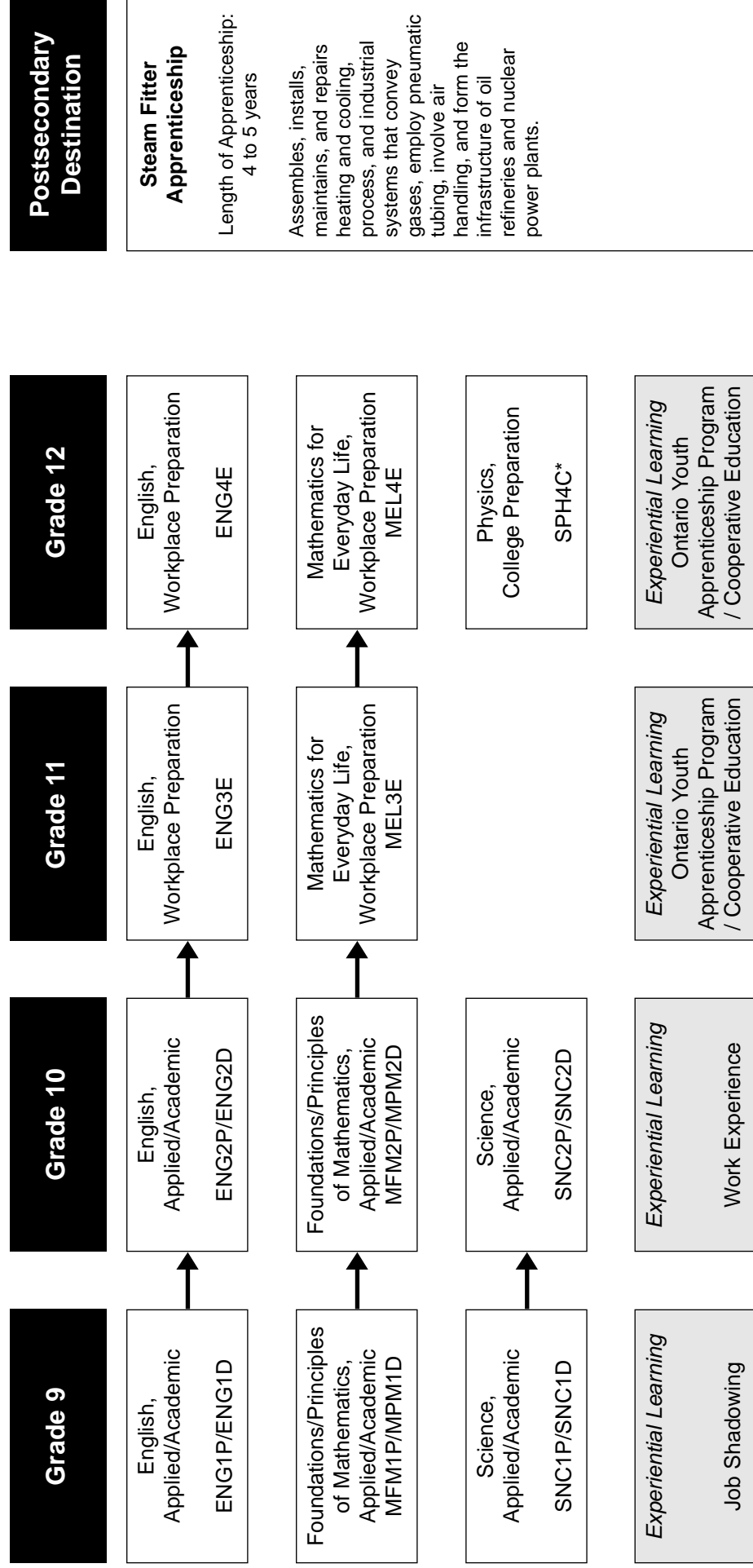
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Steam Fitter

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.



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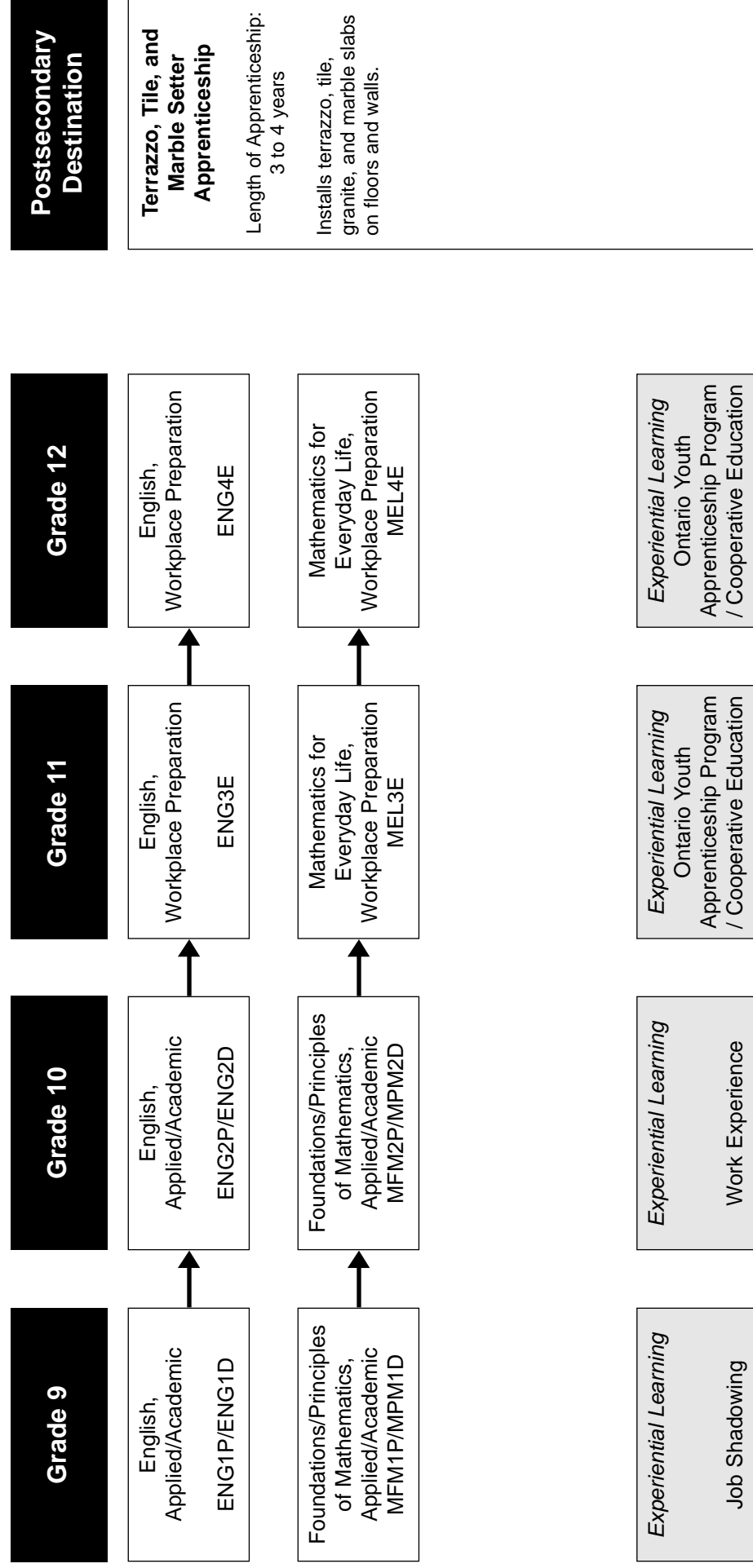
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Terrazzo, Tile, and Marble Setter

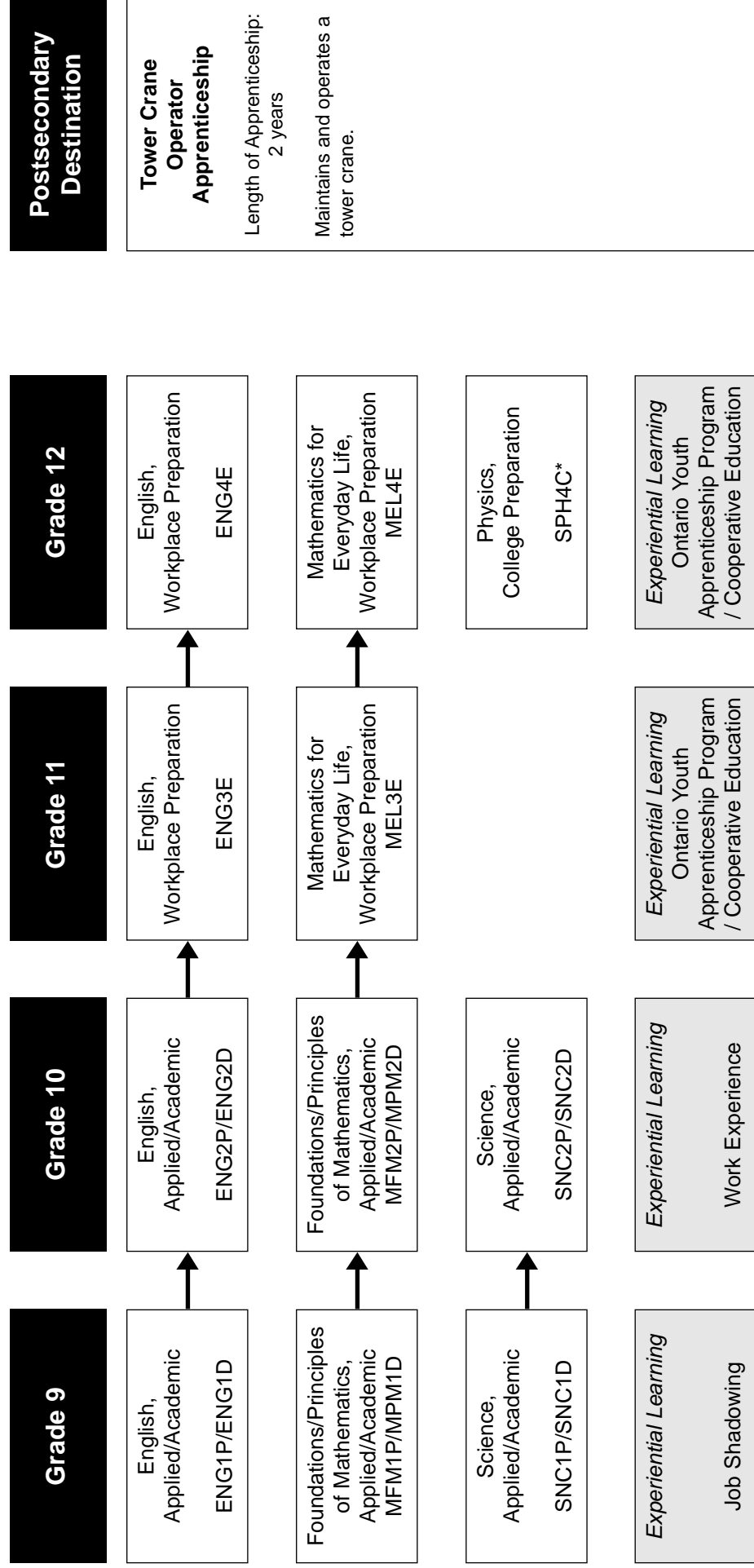
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Tower Crane Operator

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.



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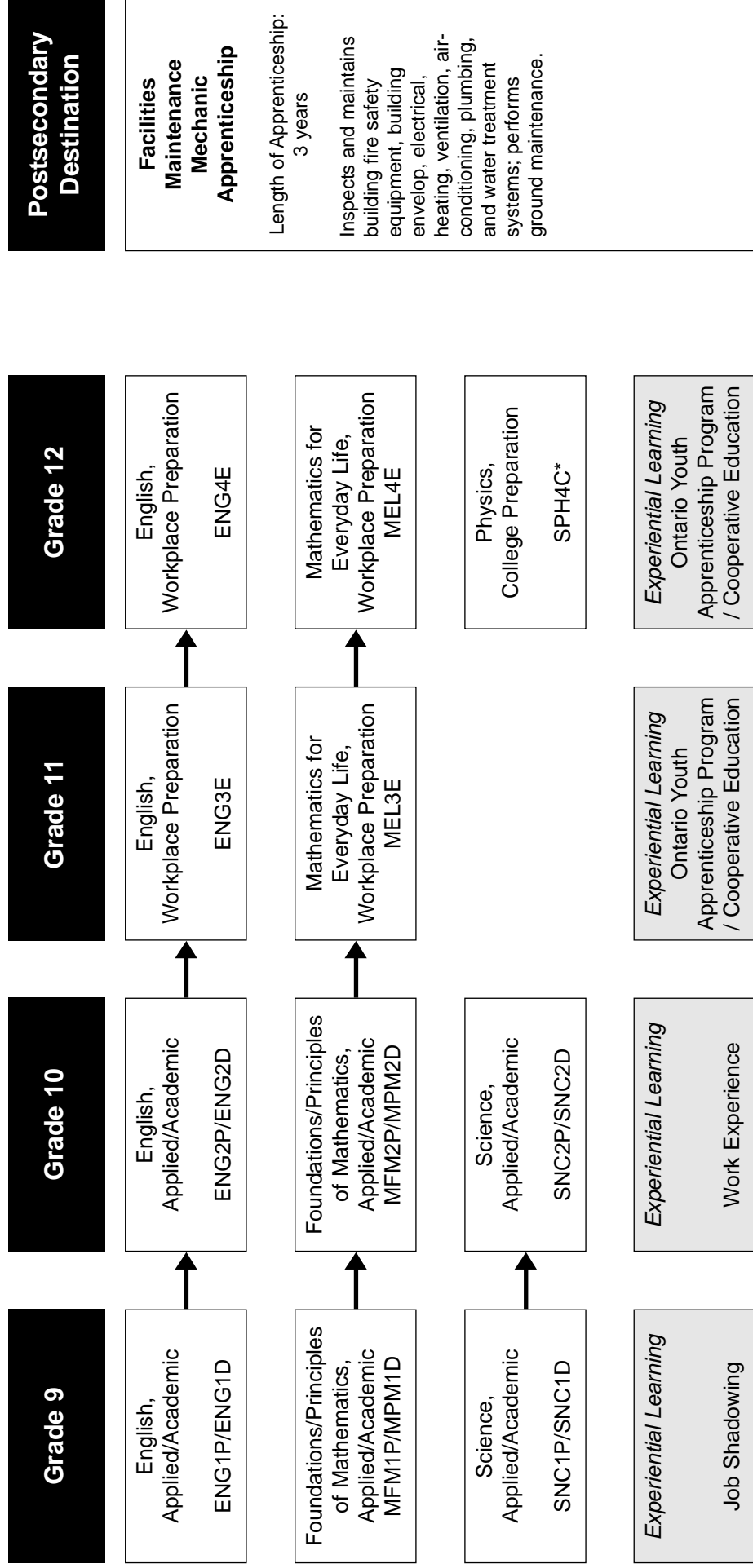
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INDUSTRIAL SECTOR

Facilities Maintenance Mechanic

The academic requirement for an apprenticeship in this trade is Grade 12.



The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

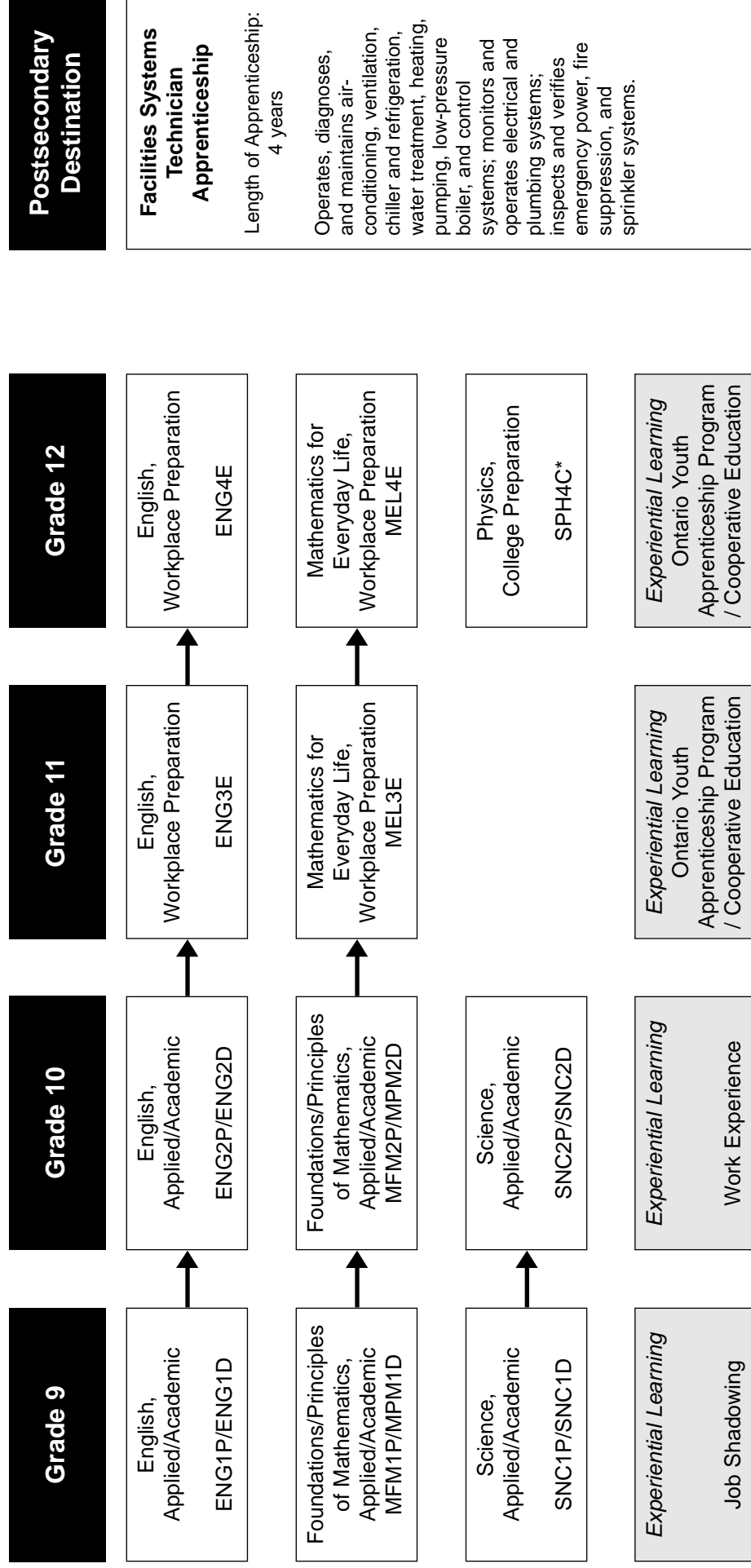
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Facilities Systems Technician

The academic requirement for an apprenticeship in this trade is Grade 12.



The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

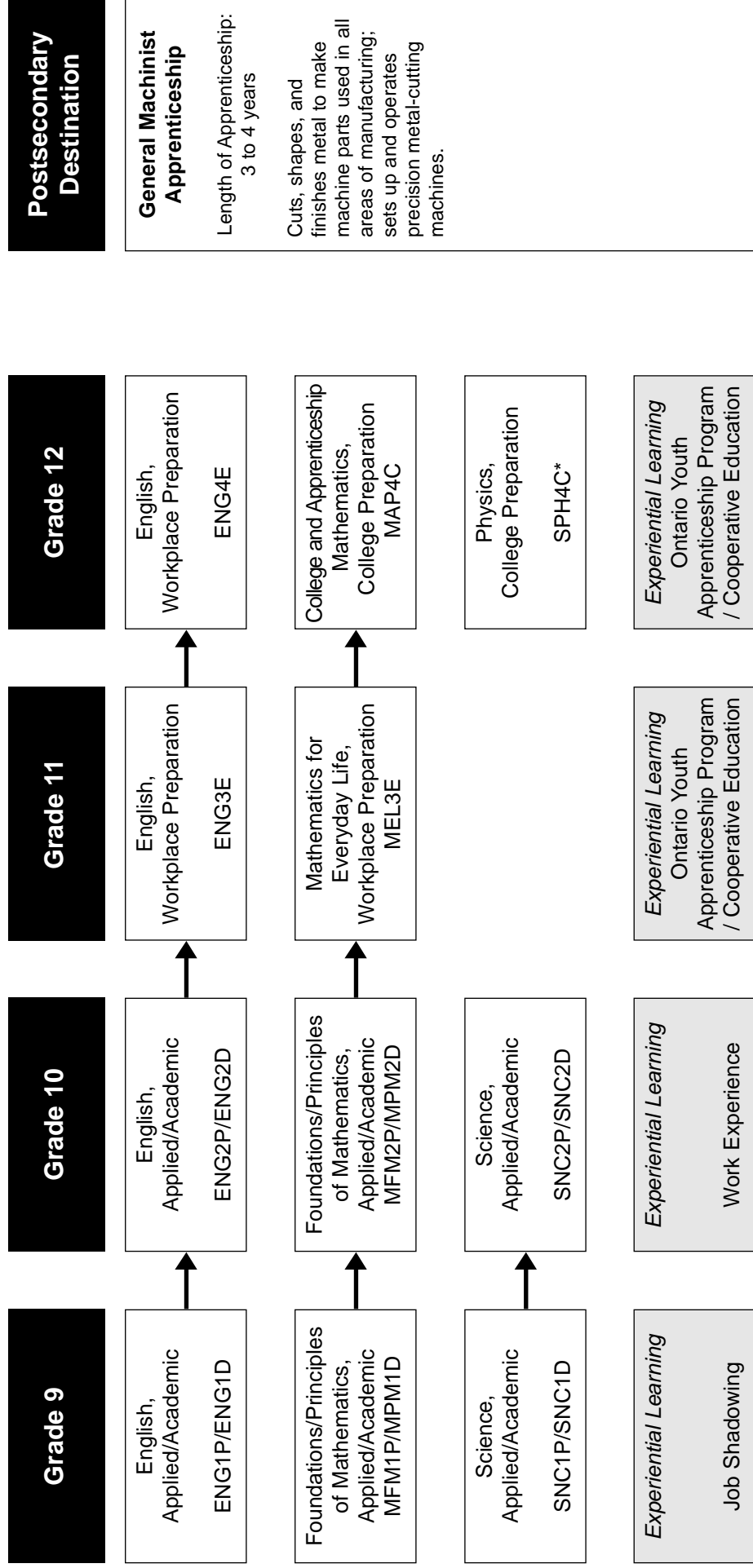
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General Machinist

The academic requirement for an apprenticeship in this trade is Grade 12.



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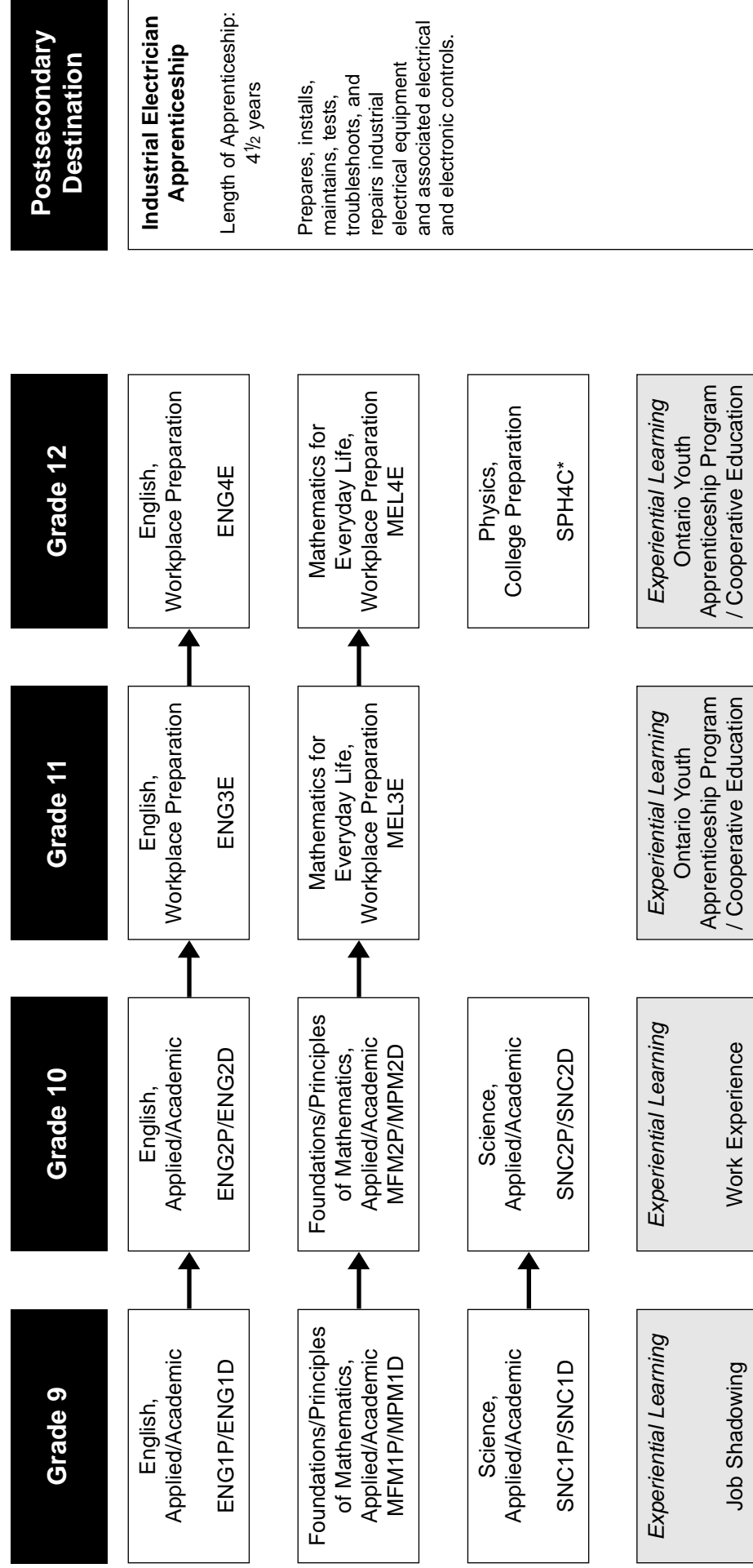
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Industrial Electrician

The academic requirement for an apprenticeship in this trade is Grade 12.

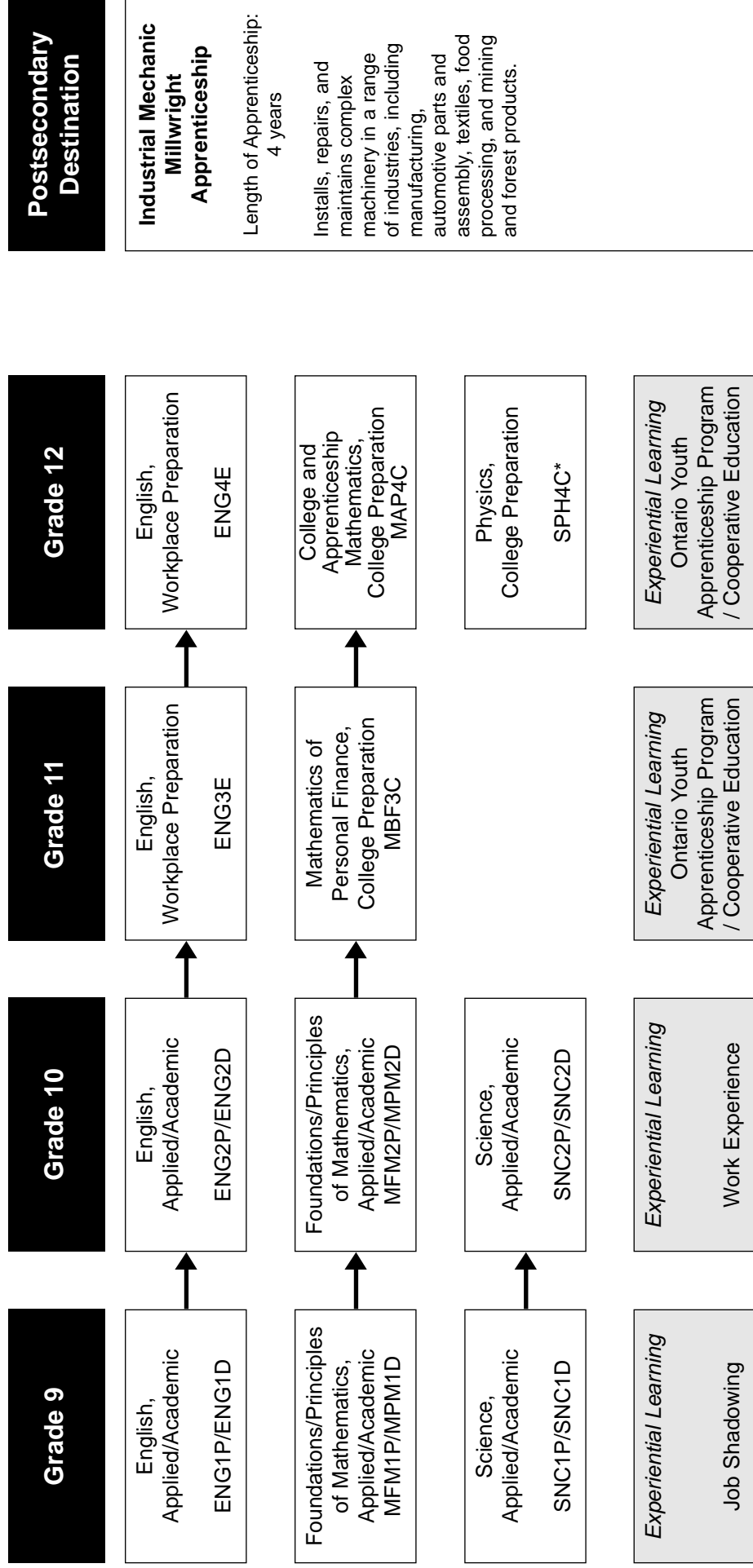


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Industrial Mechanic Millwright

The academic requirement for an apprenticeship in this trade is Grade 12.



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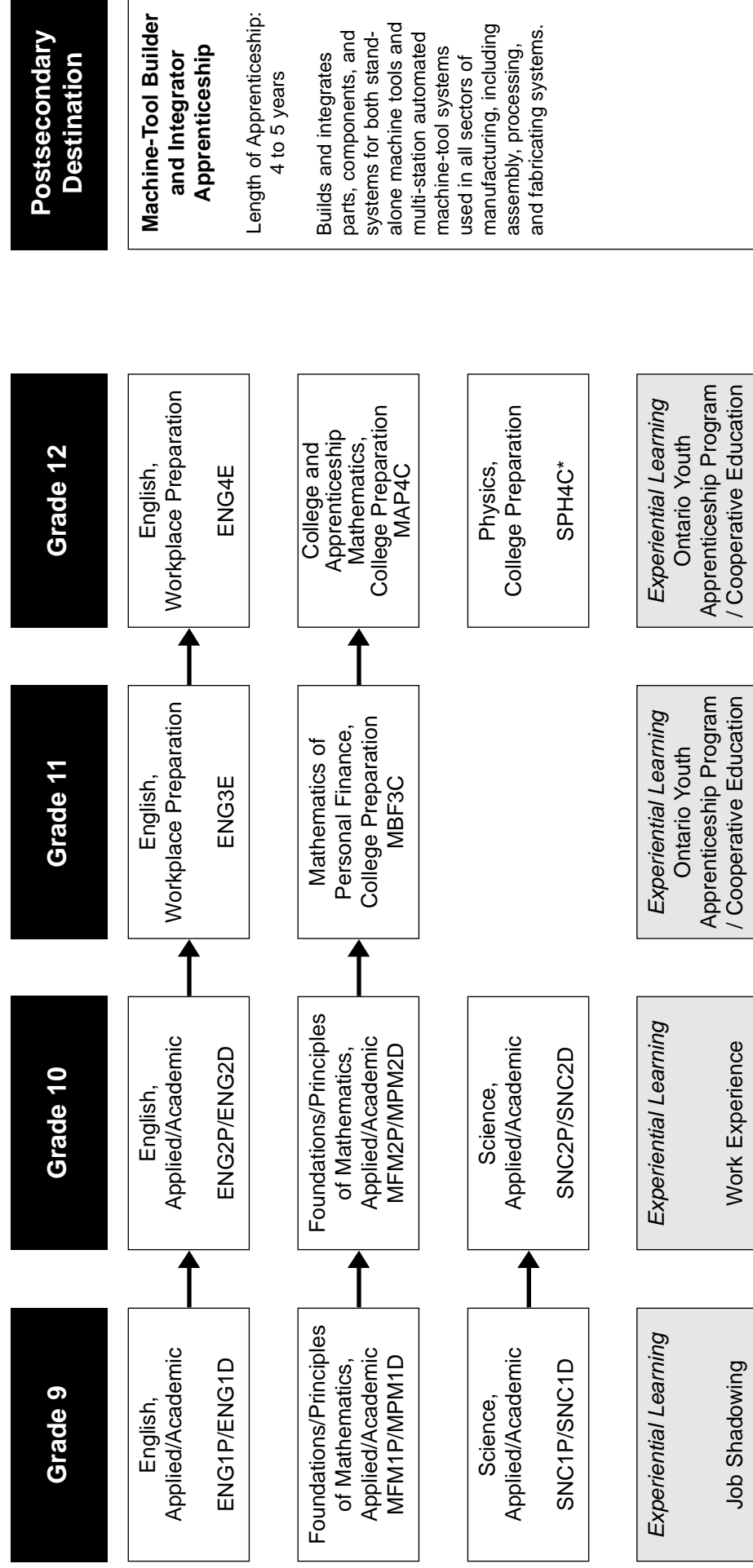
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Machine-Tool Builder and Integrator

The academic requirement for an apprenticeship in this trade is Grade 12.



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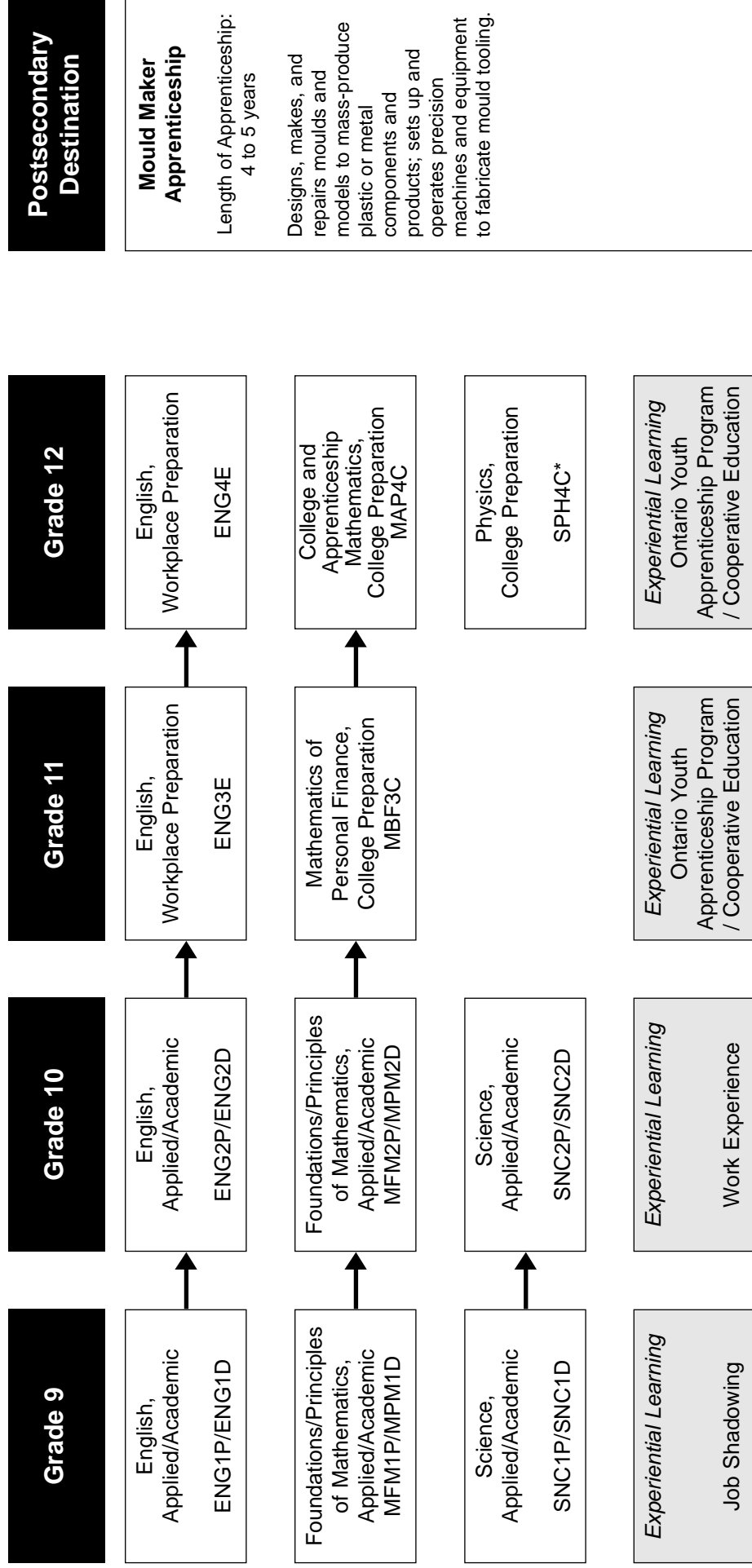
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Mould Maker

The academic requirement for an apprenticeship in this trade is Grade 12.



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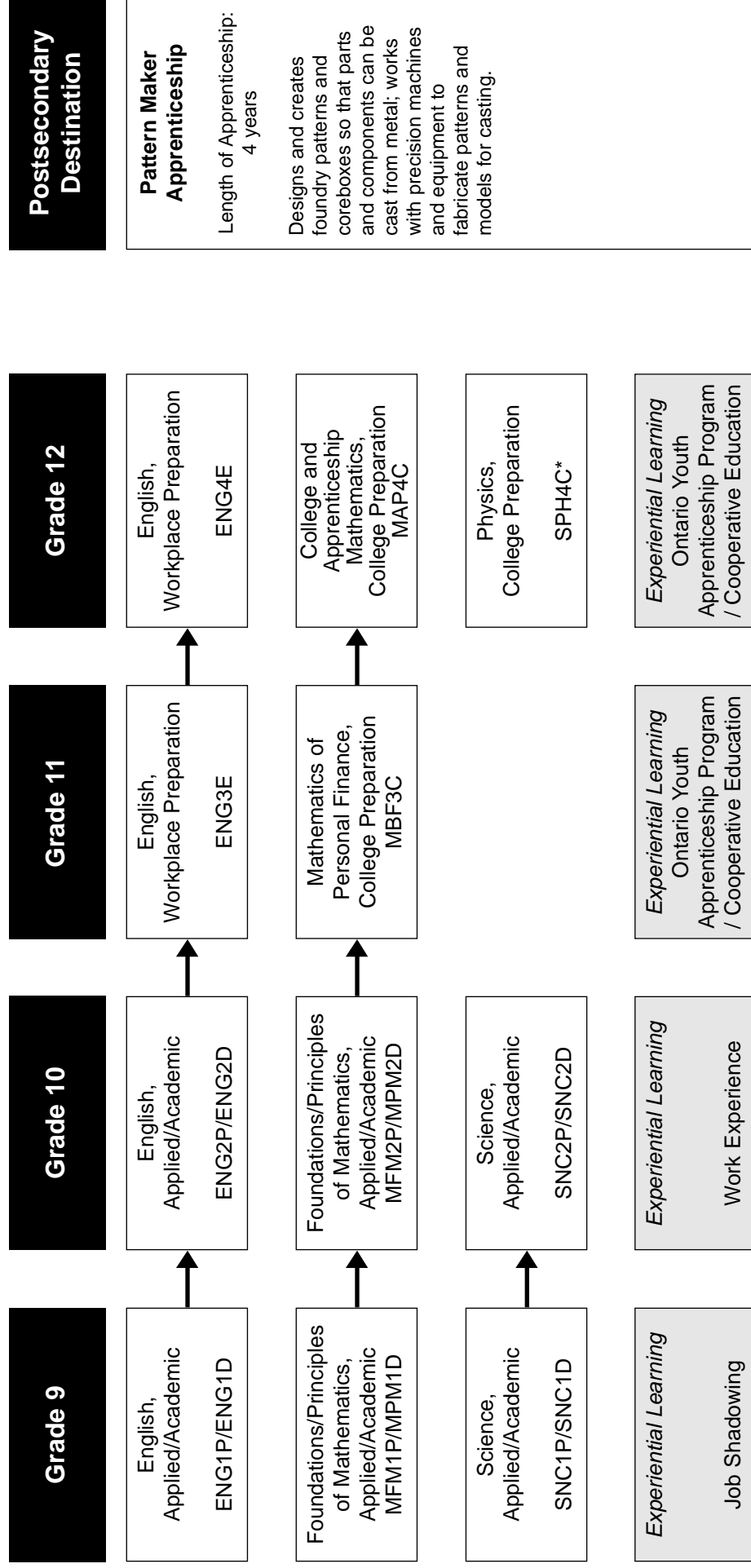
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Pattern Maker

The academic requirement for an apprenticeship in this trade is Grade 12.

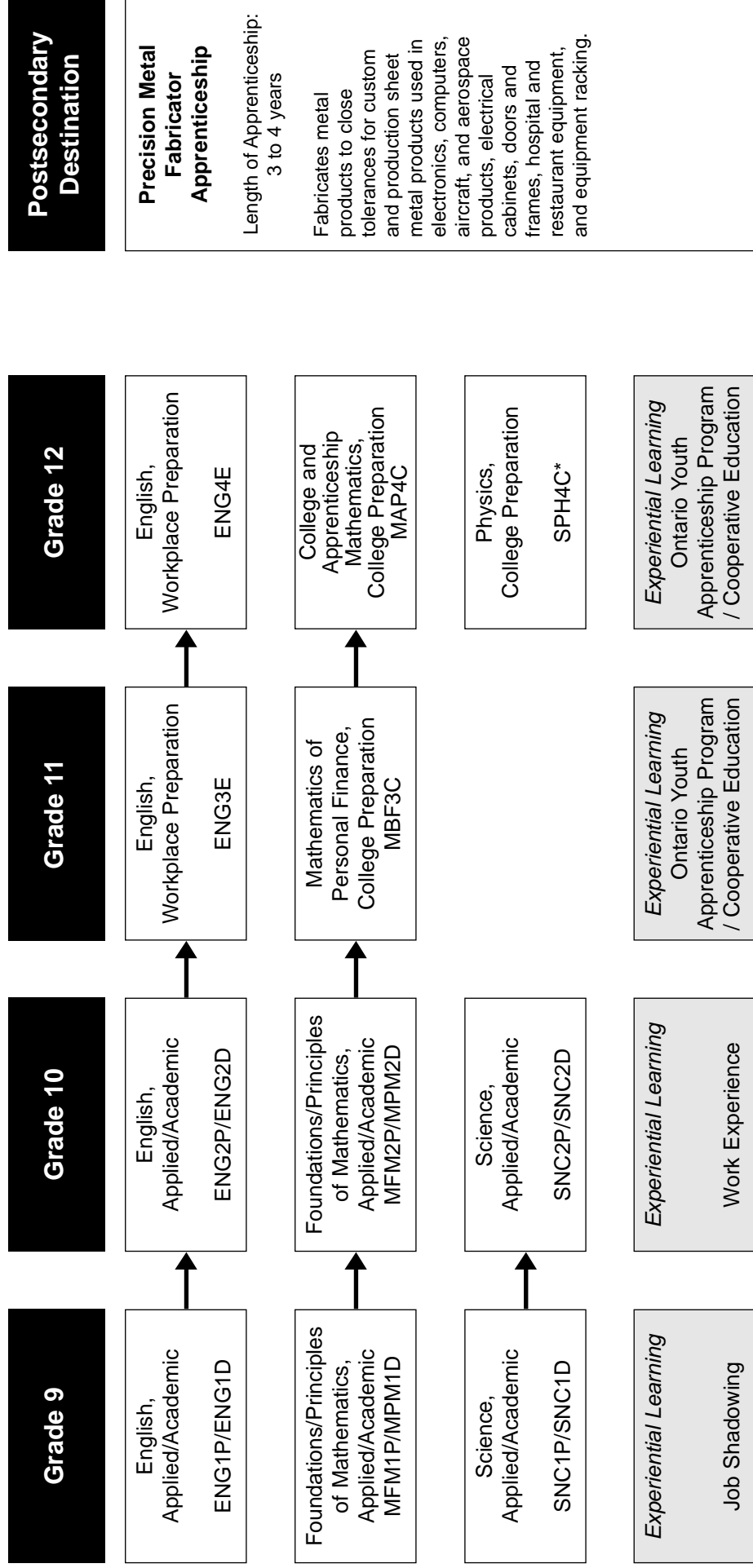


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Precision Metal Fabricator

The academic requirement for an apprenticeship in this trade is Grade 12.



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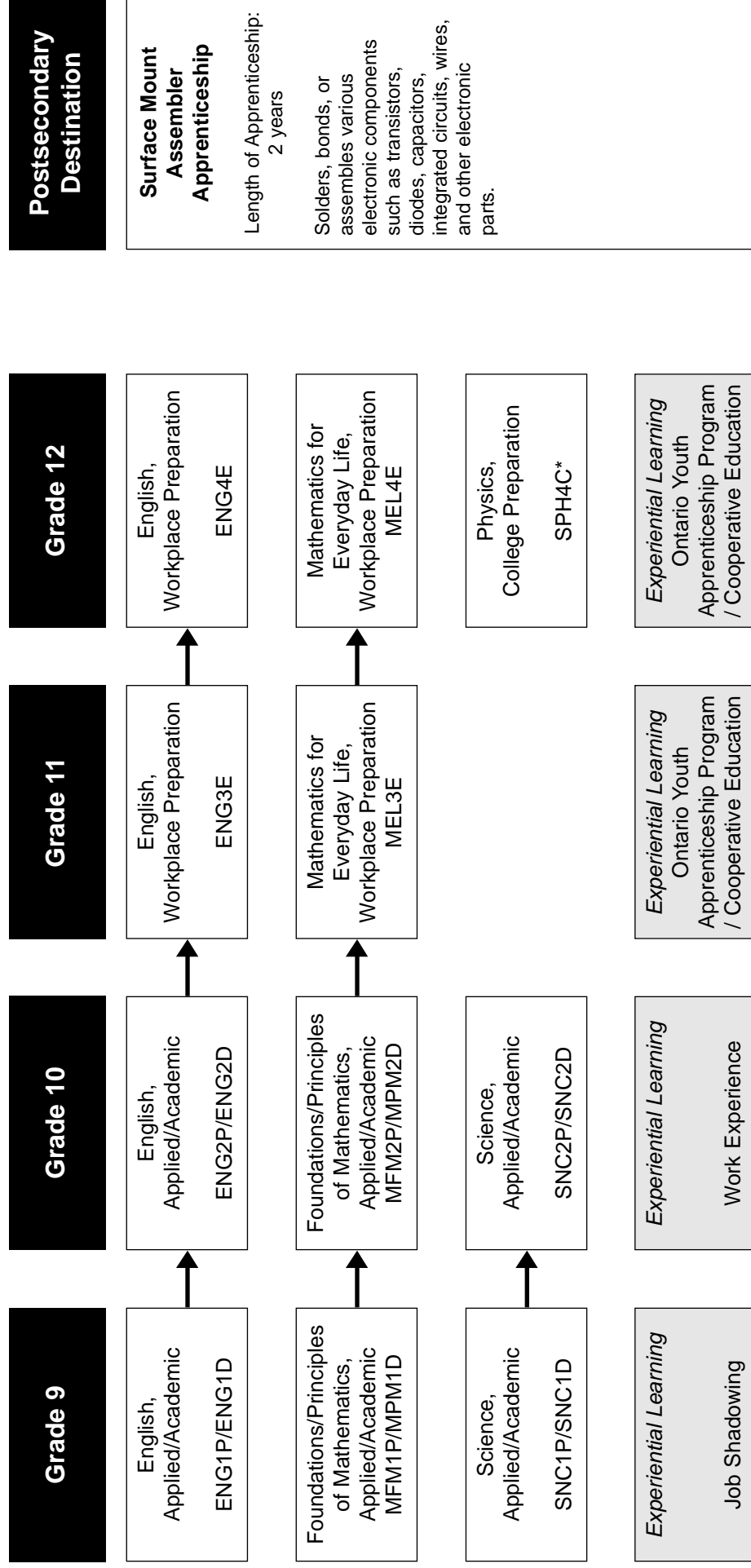
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Surface Mount Assembler

The academic requirement for an apprenticeship in this trade is Grade 12.

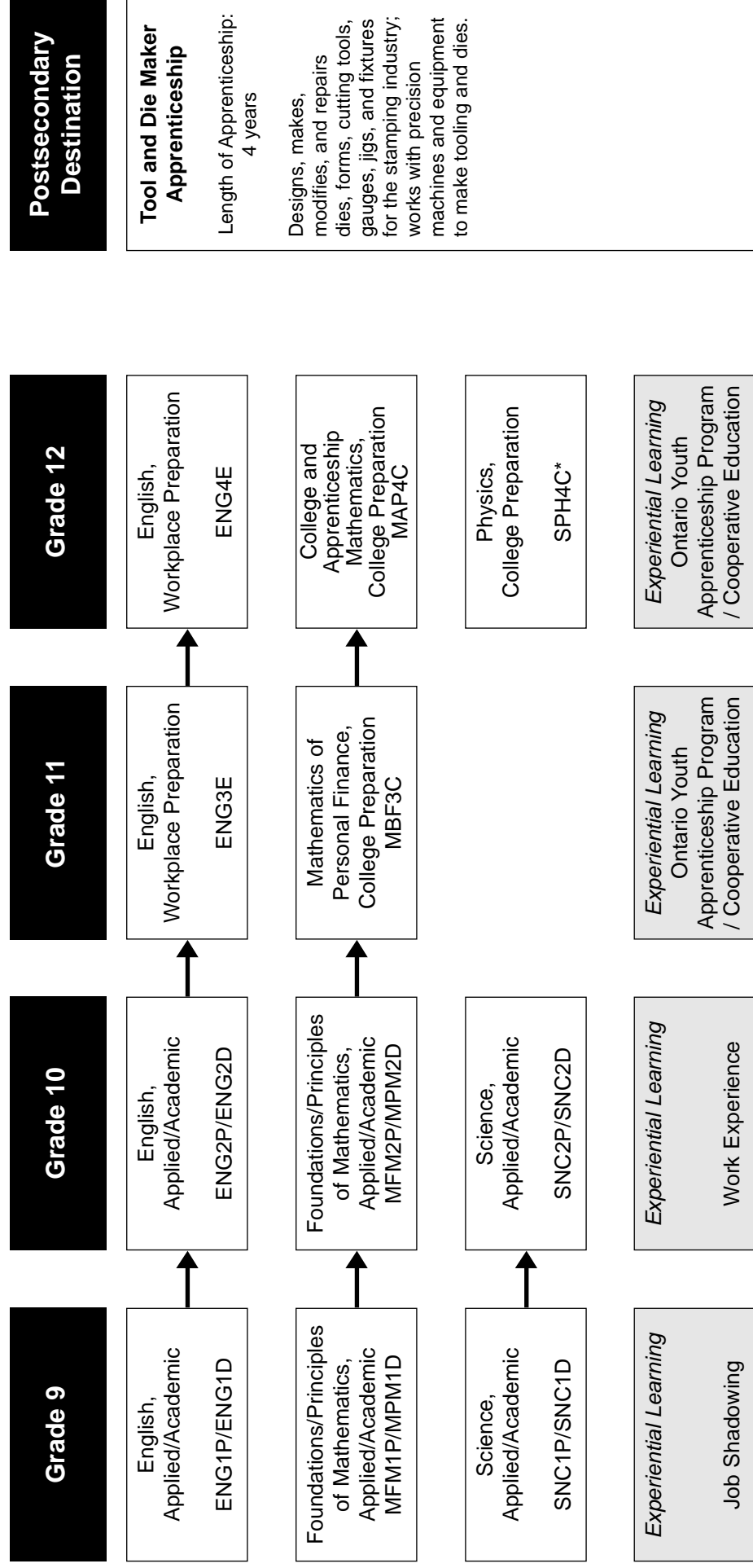


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Tool and Die Maker

The academic requirement for an apprenticeship in this trade is Grade 12.



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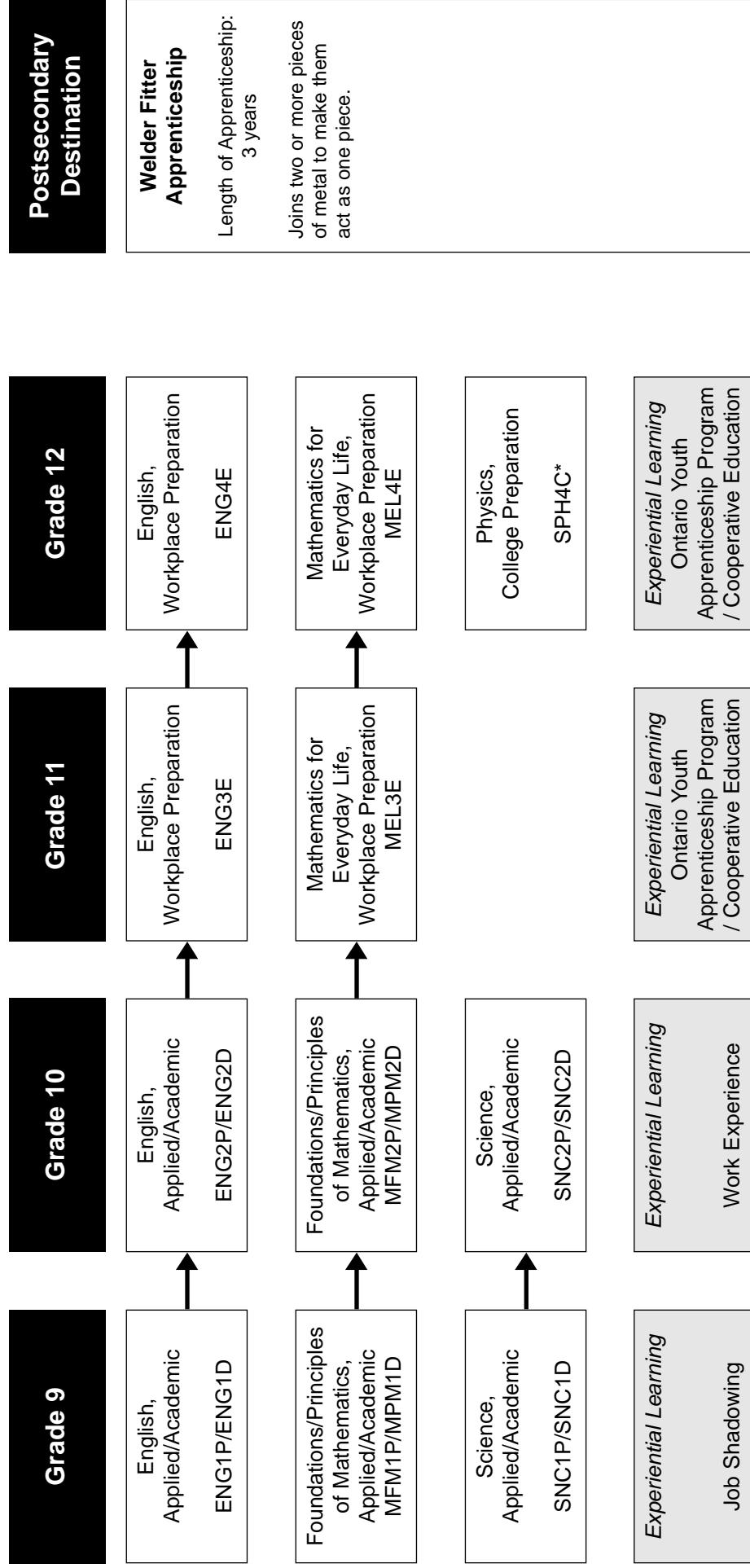
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Welder Fitter

The academic requirement for an apprenticeship in this trade is Grade 12.



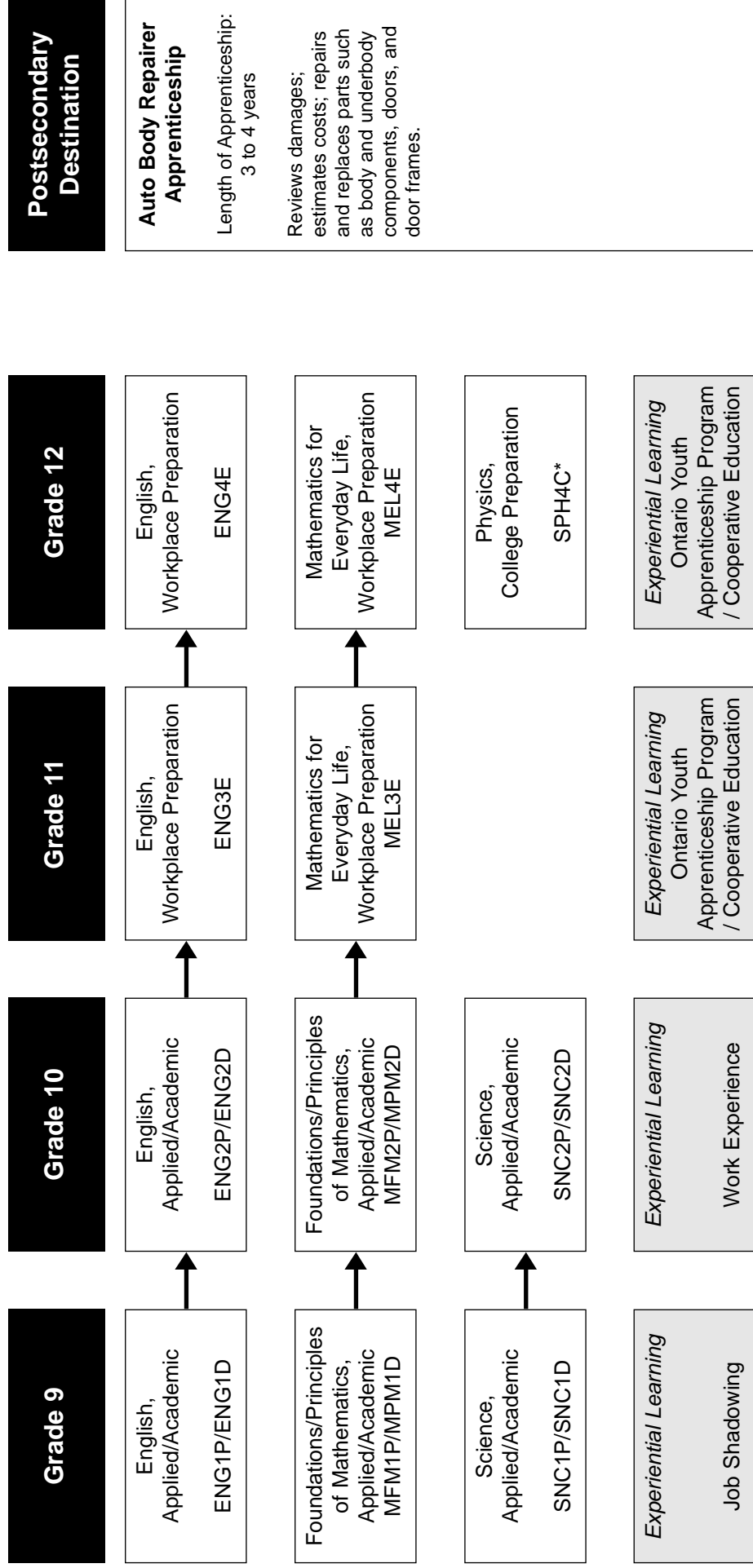
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MOTIVE POWER SECTOR

Auto Body Repairer

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.



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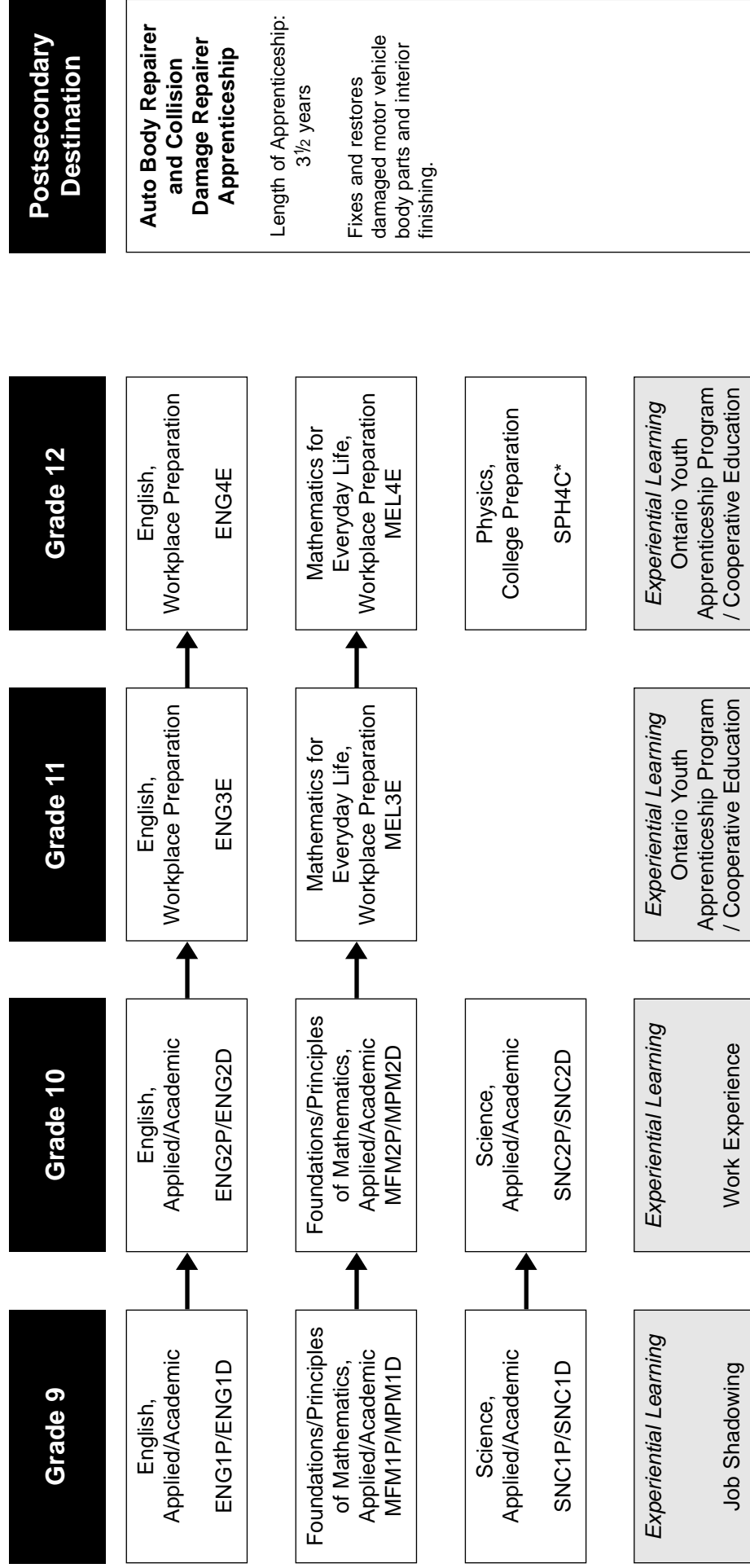
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Auto Body Repairer and Collision Damage Repairer

The academic requirement for an apprenticeship in this trade is Grade 12.



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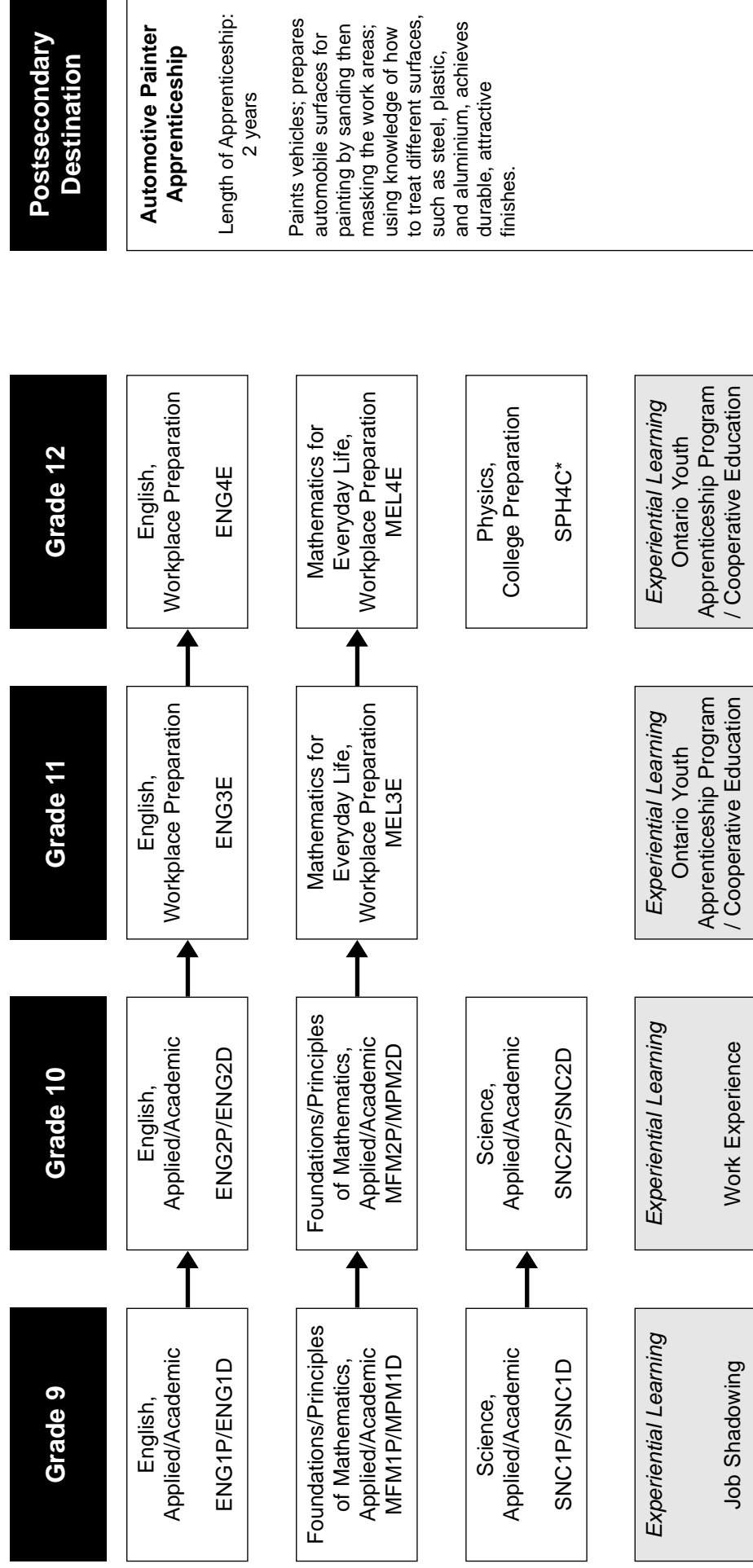
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Automotive Painter

The academic requirement for an apprenticeship in this trade is Grade 12.



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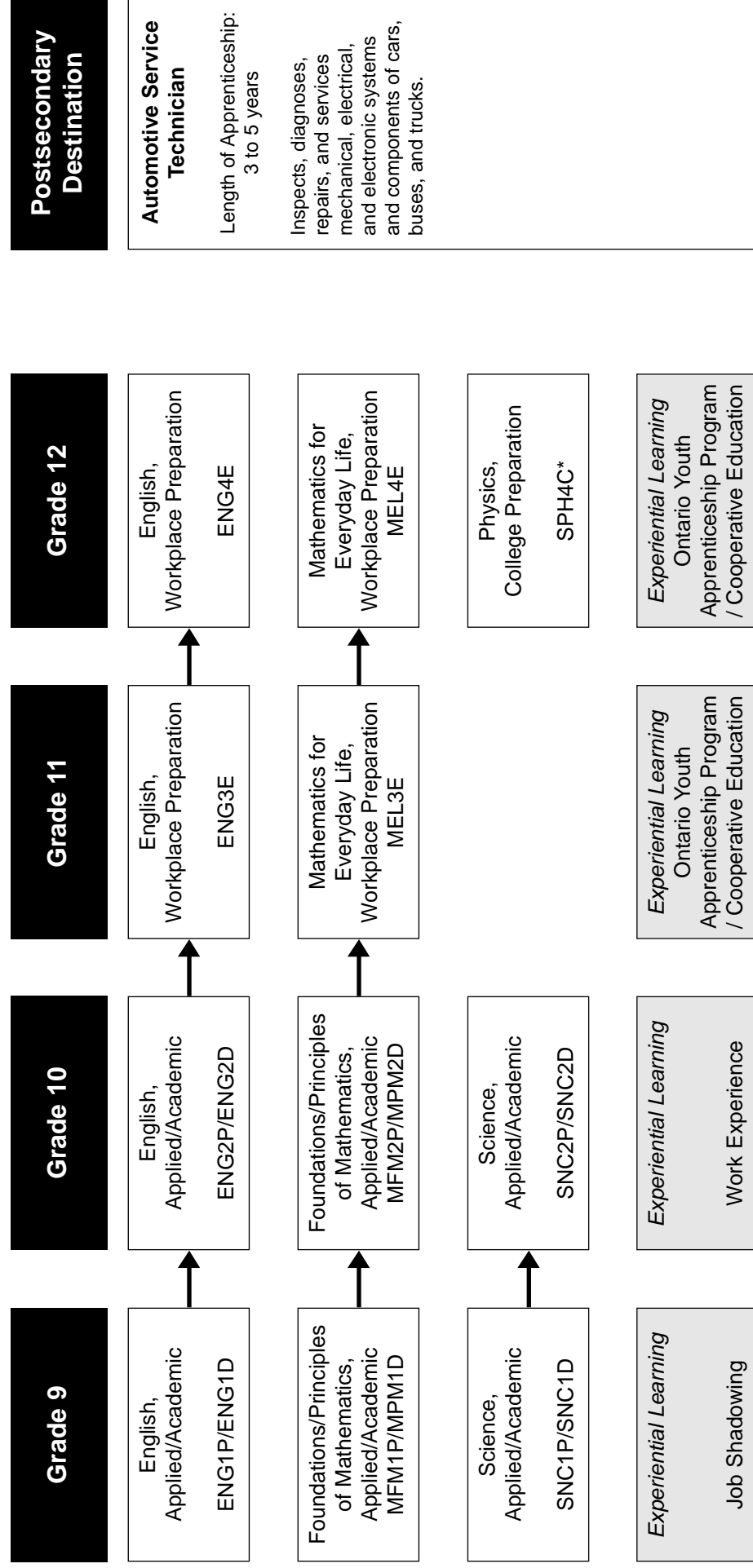
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Automotive Service Technician

The academic requirement for an apprenticeship in this trade is Grade 12.



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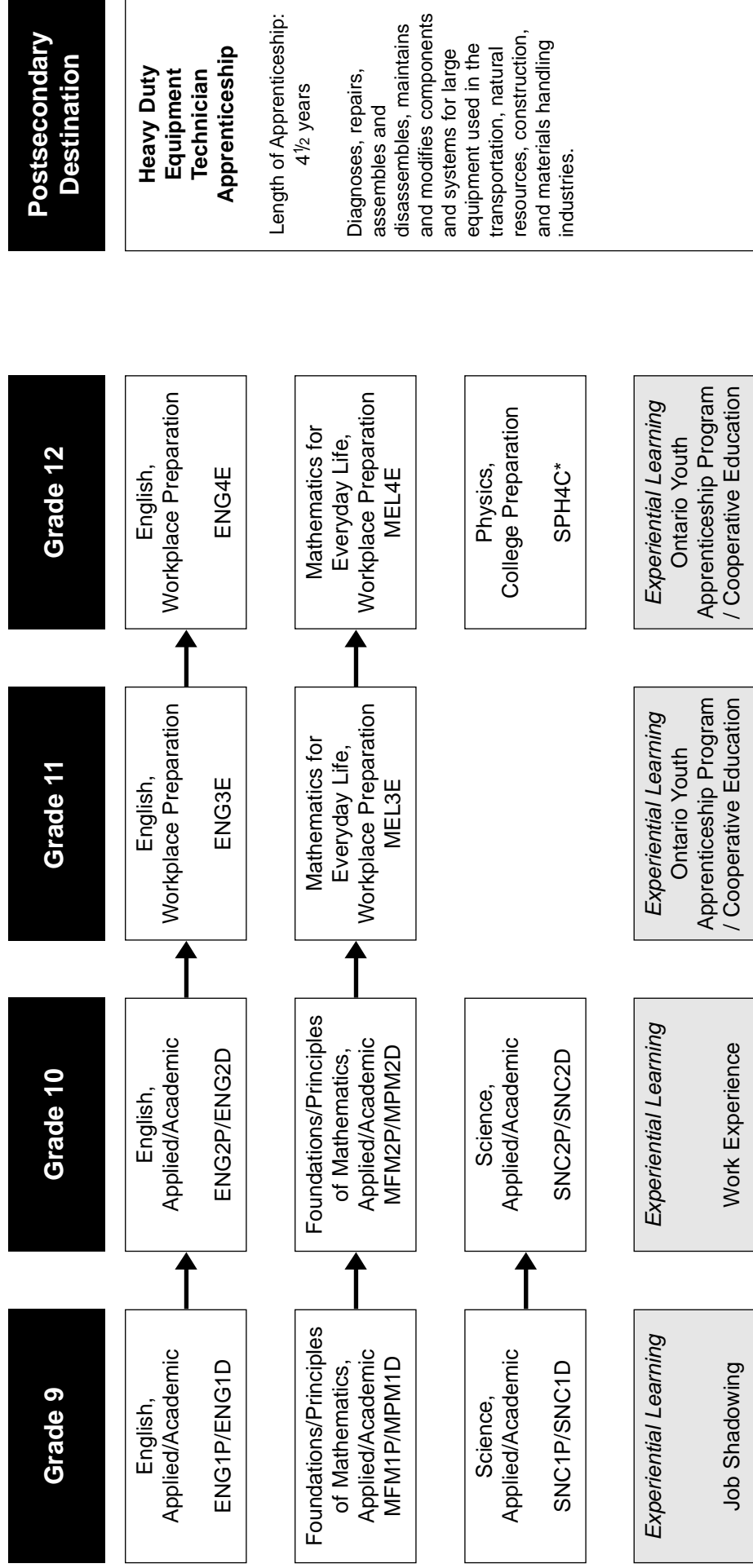
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Heavy Duty Equipment Technician

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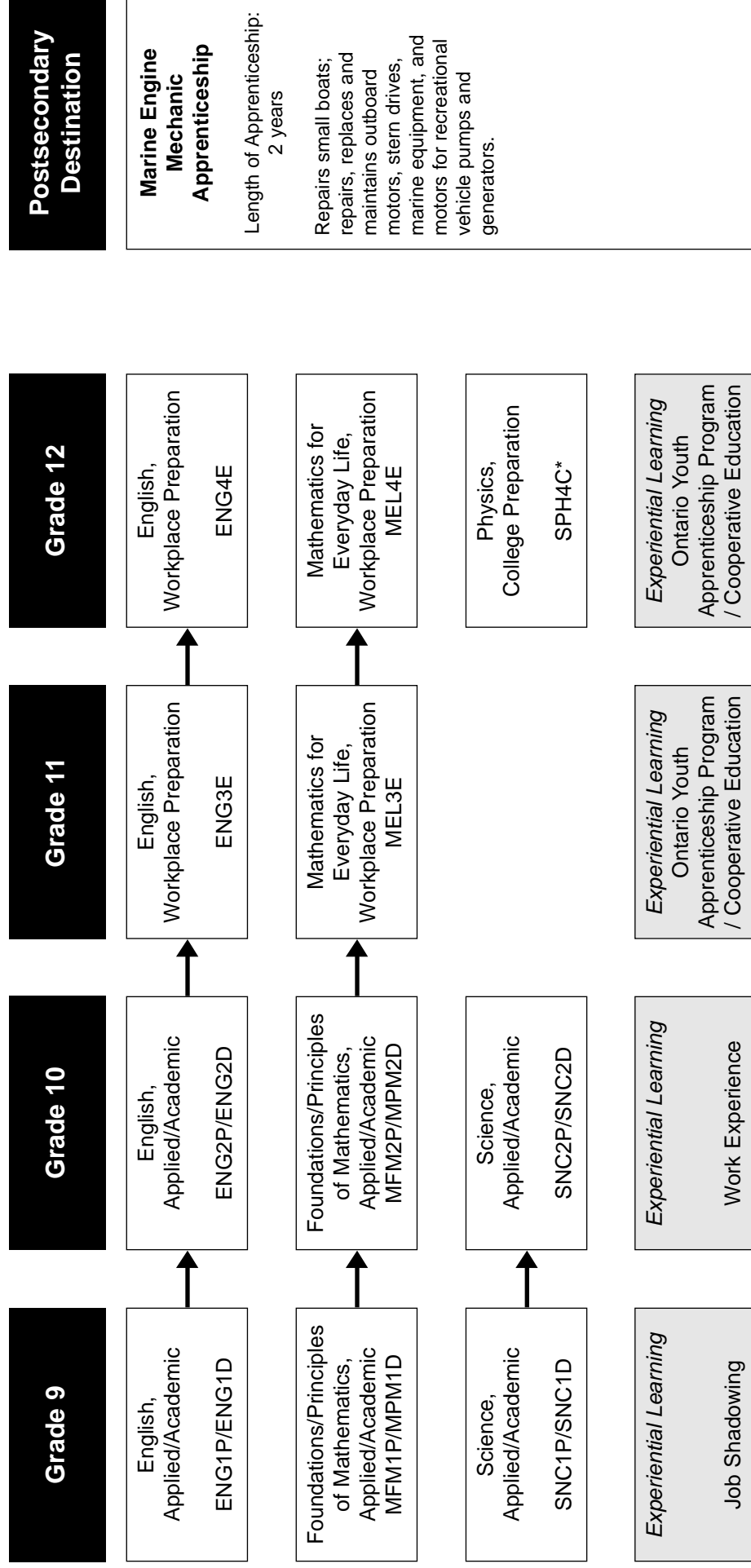
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Marine Engine Mechanic

The academic requirement for an apprenticeship in this trade is Grade 12.

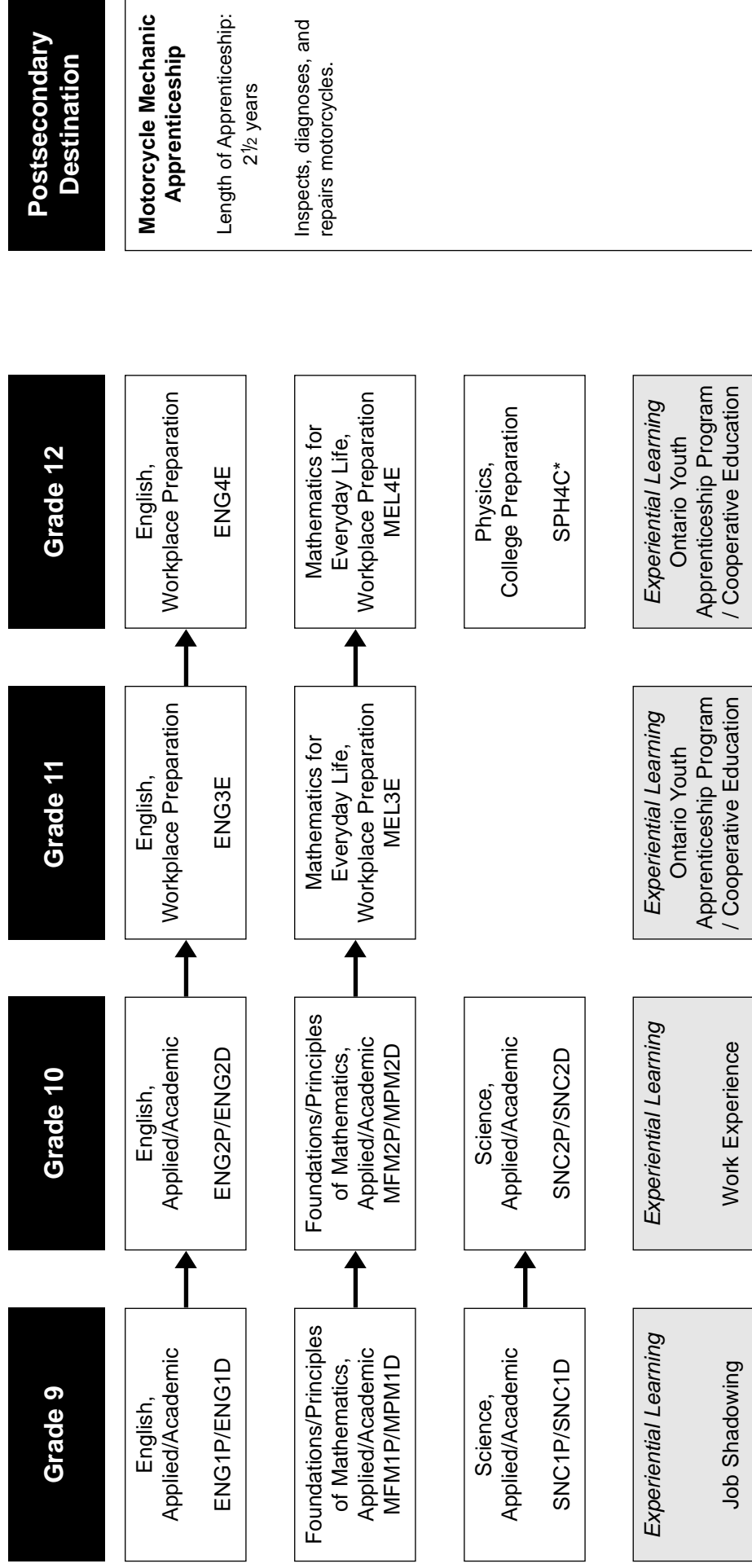


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Motorcycle Mechanic

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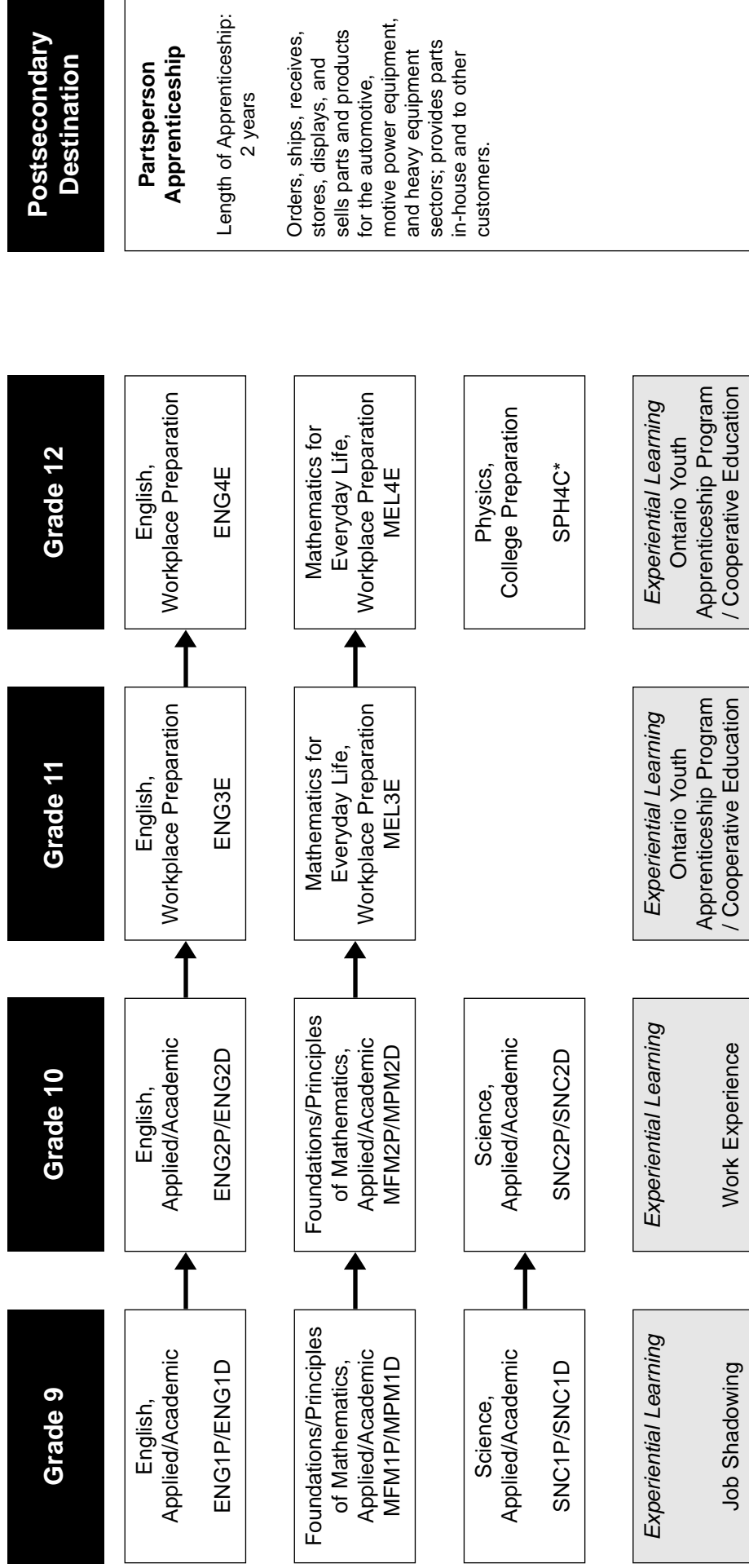
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Partsperson

The academic requirement for an apprenticeship in this trade is Grade 12.

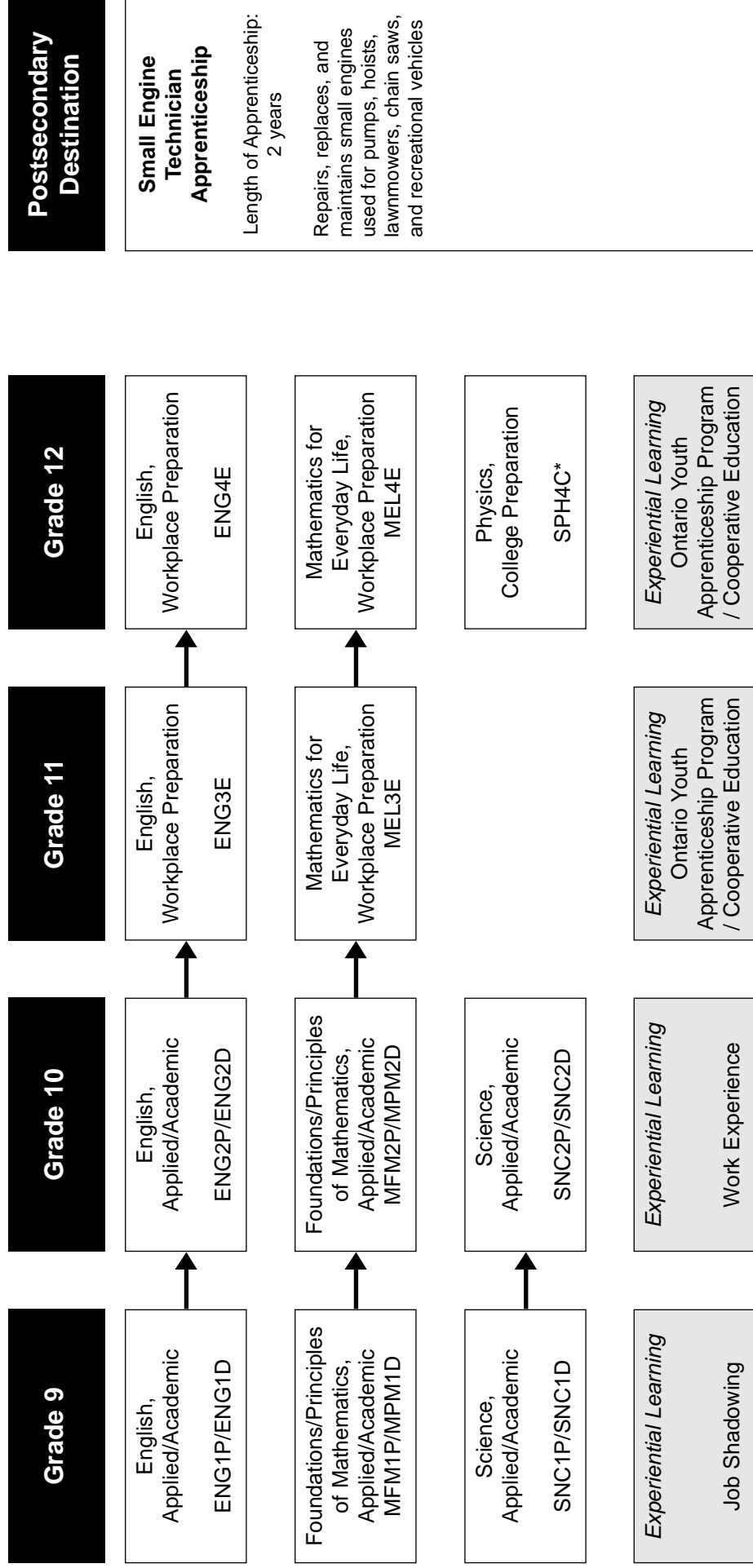


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* This course is beneficial for a very limited number of concepts contained in its expectations; these may be acquired through self-study.

Small Engine Technician

The academic requirement for an apprenticeship in this trade is Grade 12.



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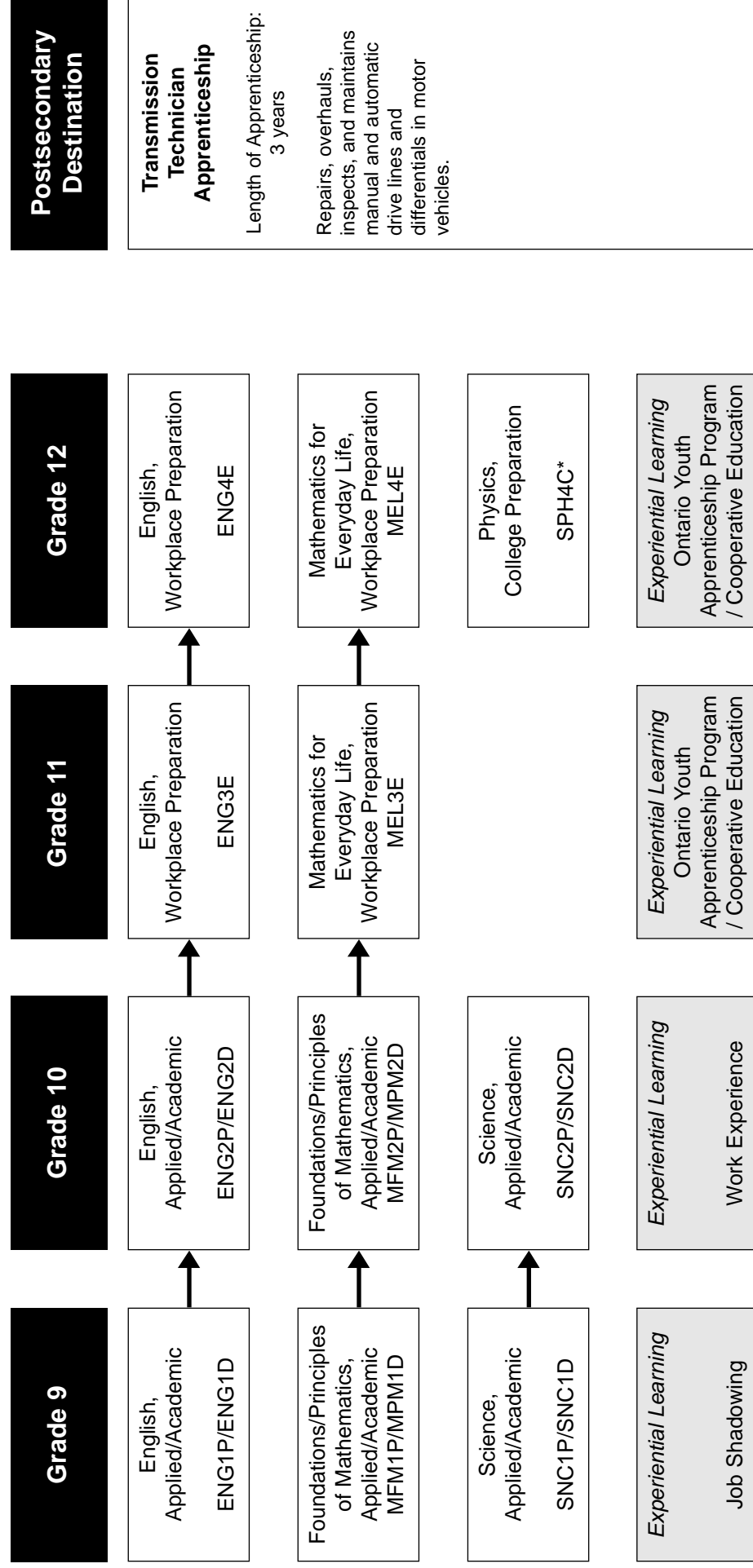
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Transmission Technician

The academic requirement for an apprenticeship in this trade is Grade 12.



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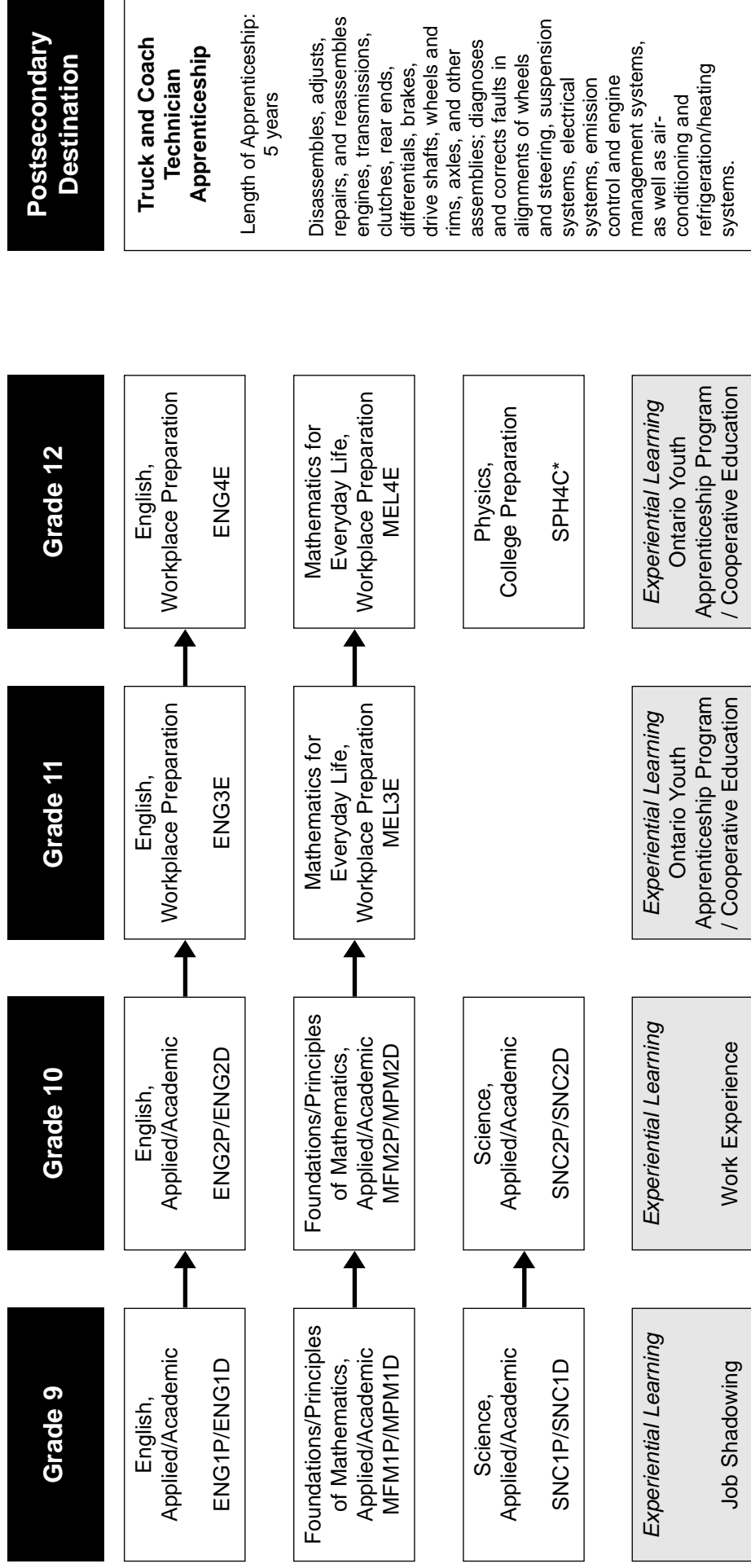
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Truck and Coach Technician

The academic requirement for an apprenticeship in this trade is Grade 12.



The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

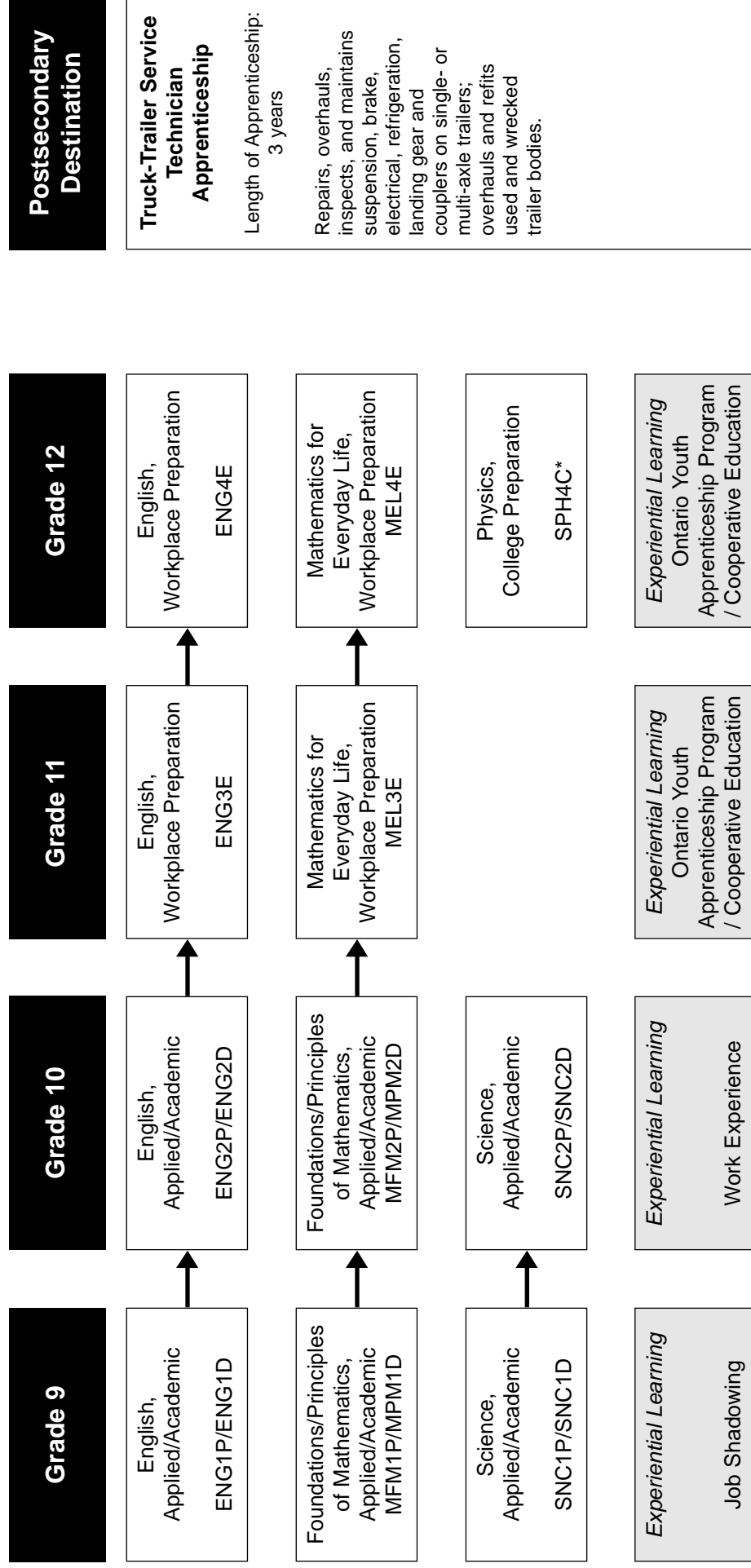
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Truck-Trailer Service Technician

The academic requirement for an apprenticeship in this trade is Grade 12.



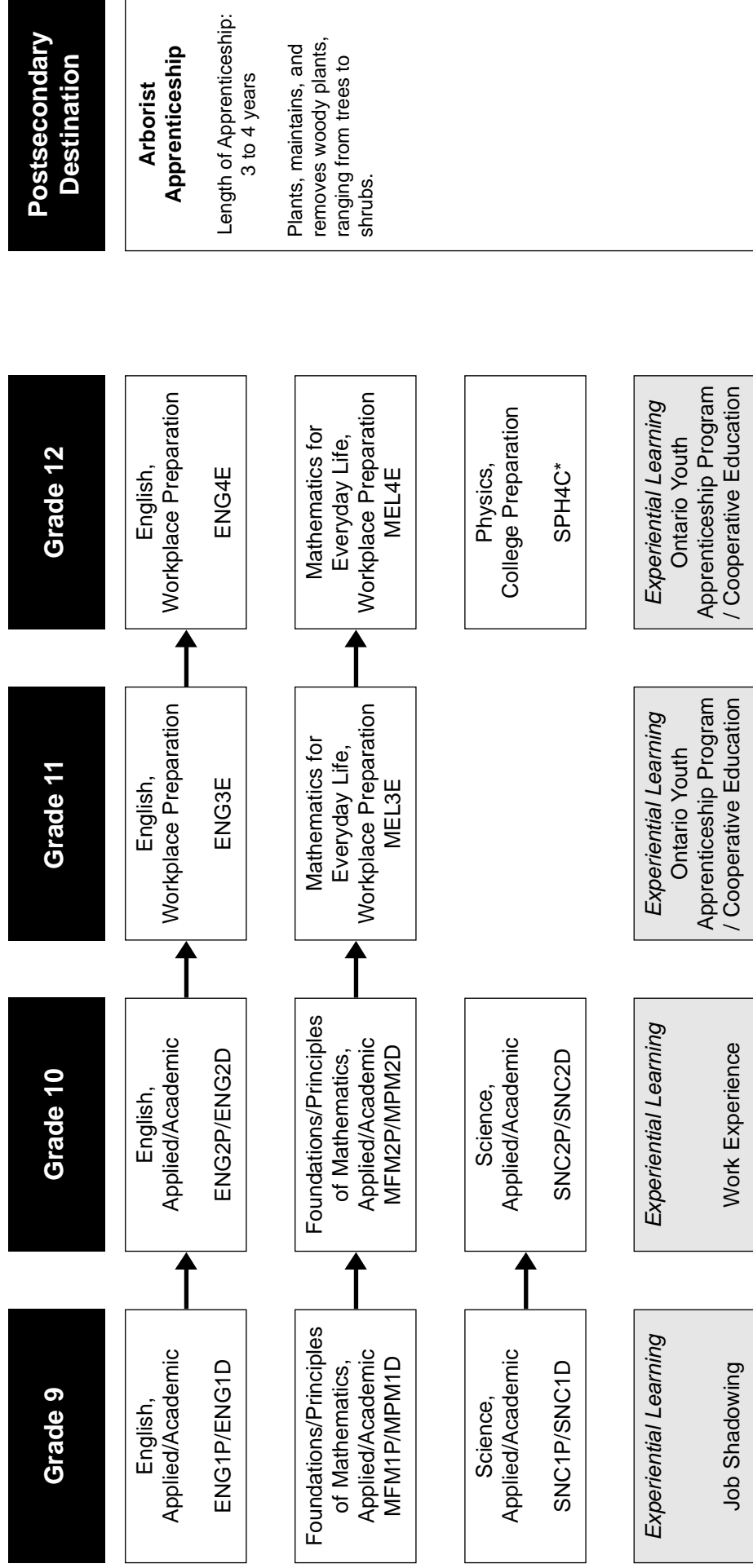
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**SERVICE
SECTOR**

Arborist

The academic requirement for an apprenticeship in this trade is Grade 12.



The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

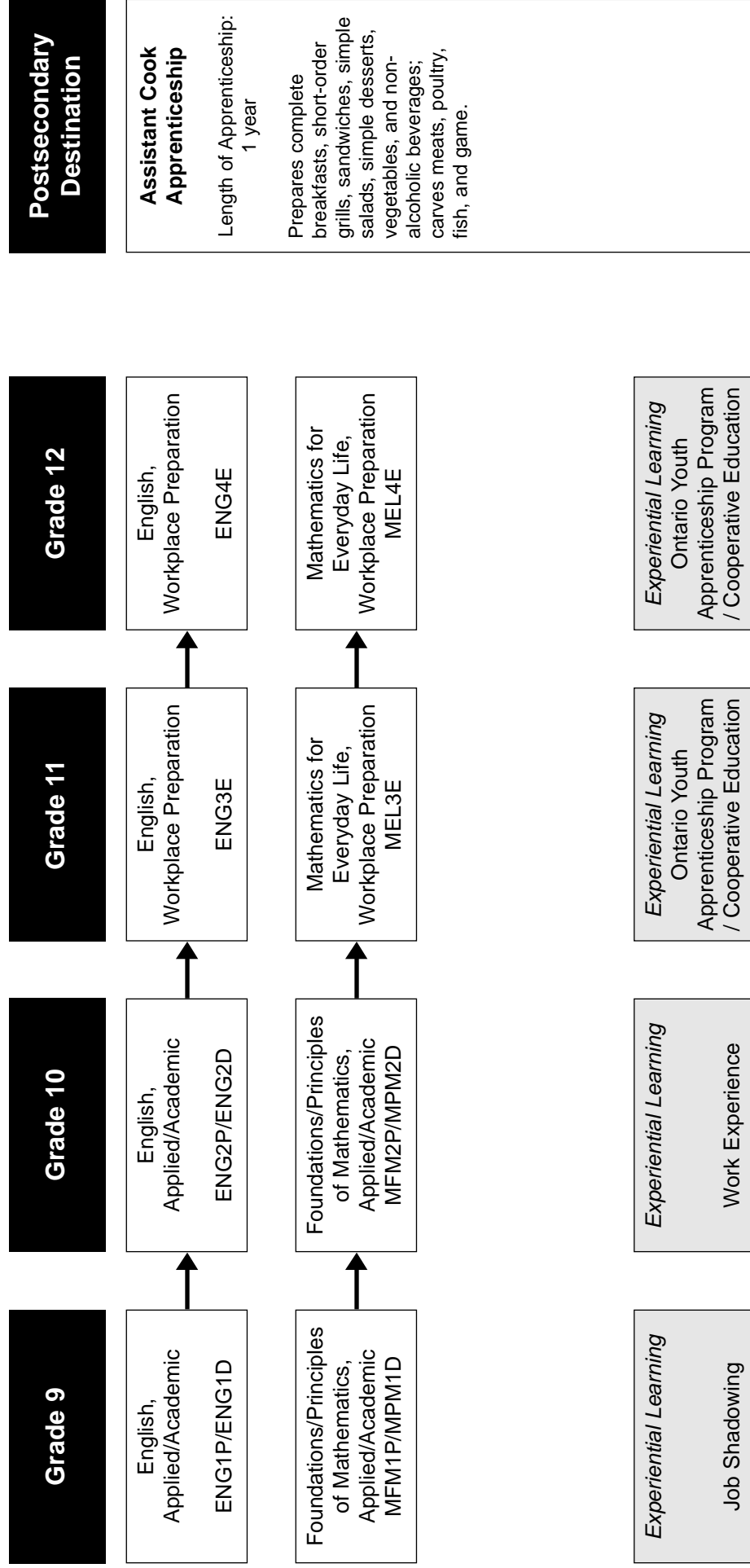
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Assistant Cook

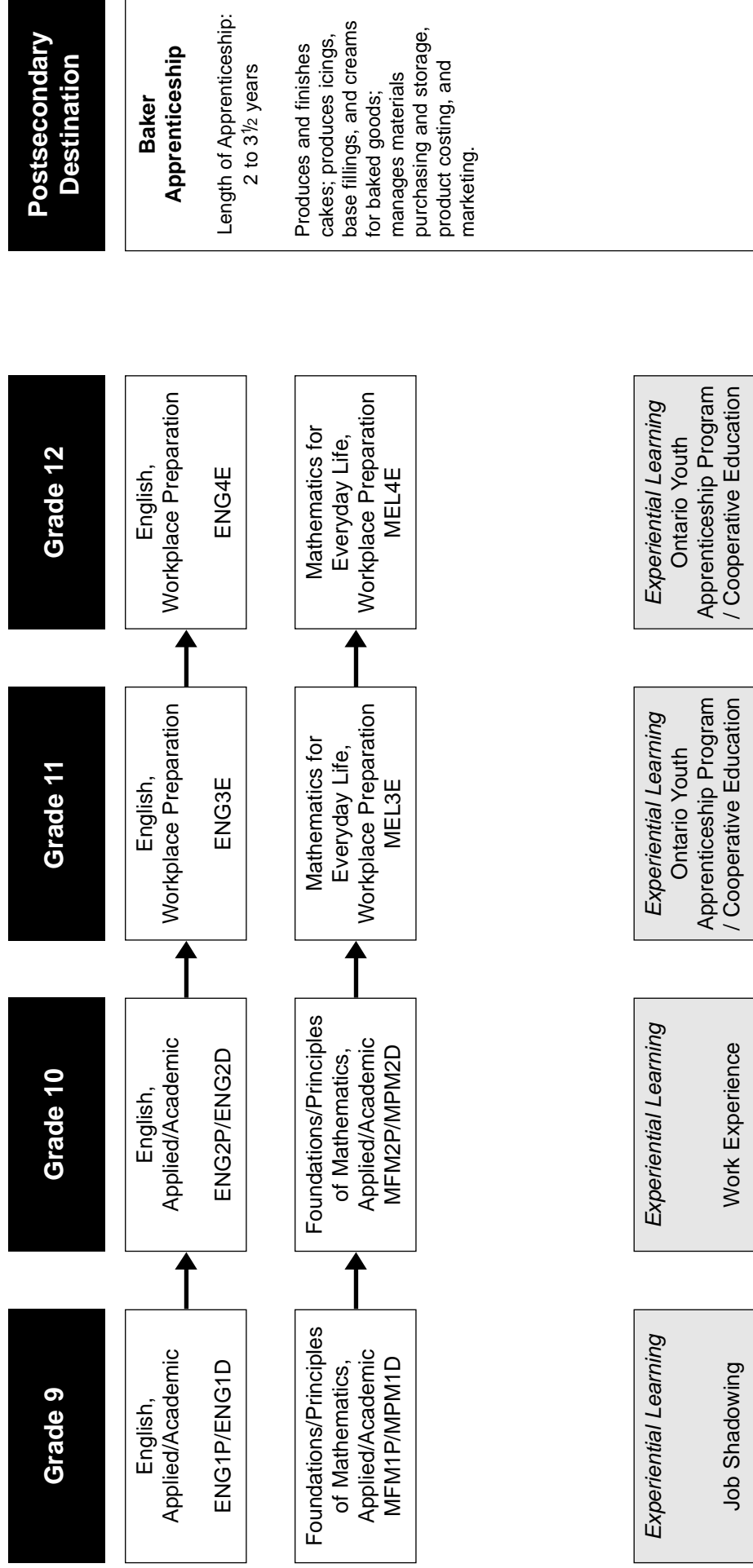
Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.



The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation. This chart is based on an alignment of the expectations in the Ontario curriculum developed by the Ministry of Education with the knowledge and skills identified in Evaluating Academic Readiness for Apprenticeship Training (E-ARAT), an academic skills inventory developed by the Ministry of Training, Colleges and Universities. It also makes recommendations about experiential learning opportunities, using the guidelines contained in *Cooperative Education and Other Forms of Experiential Learning: Policies and Procedures for Ontario Secondary Schools, 2000*. Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

Baker

The academic requirement for an apprenticeship in this trade is Grade 12.



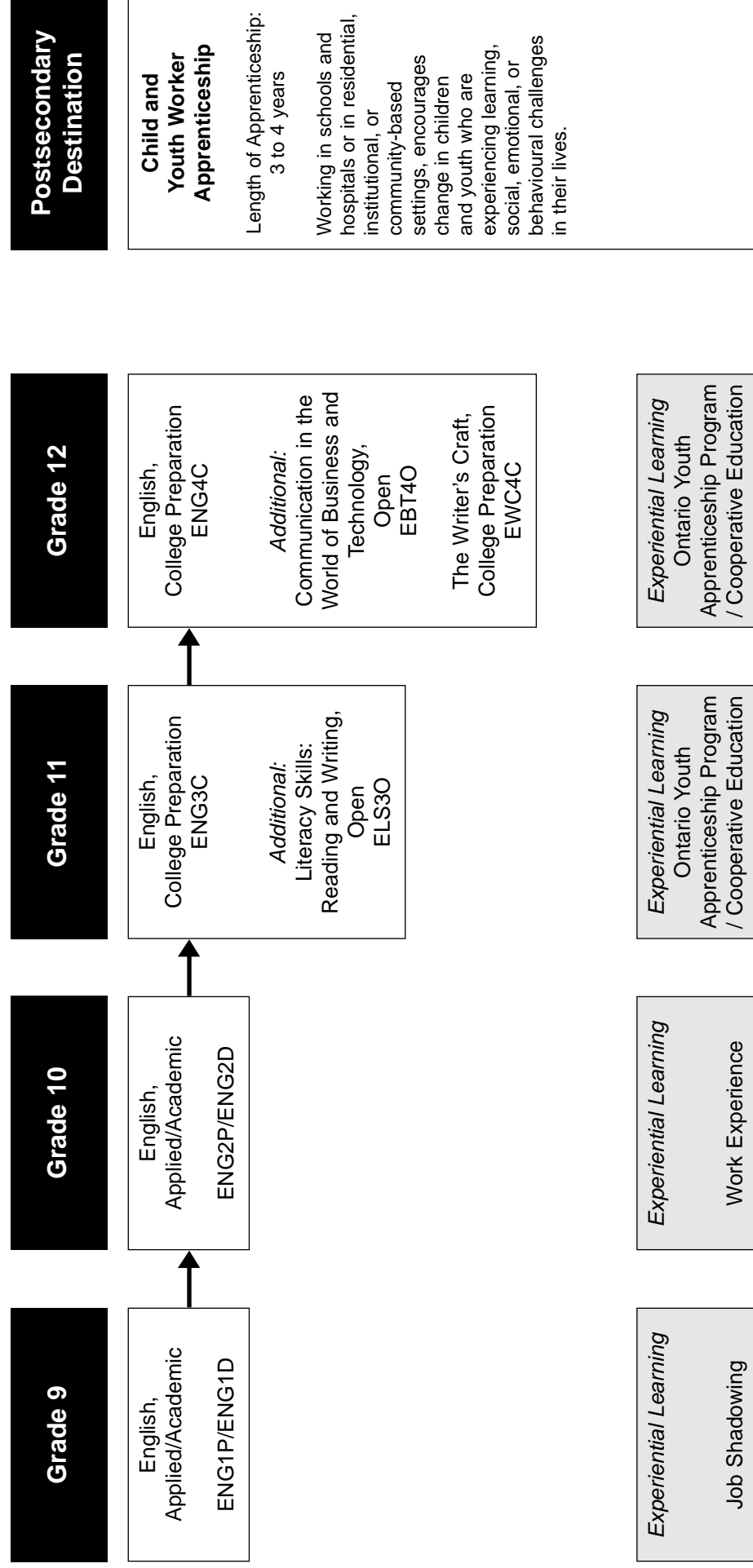
The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

Child and Youth Worker

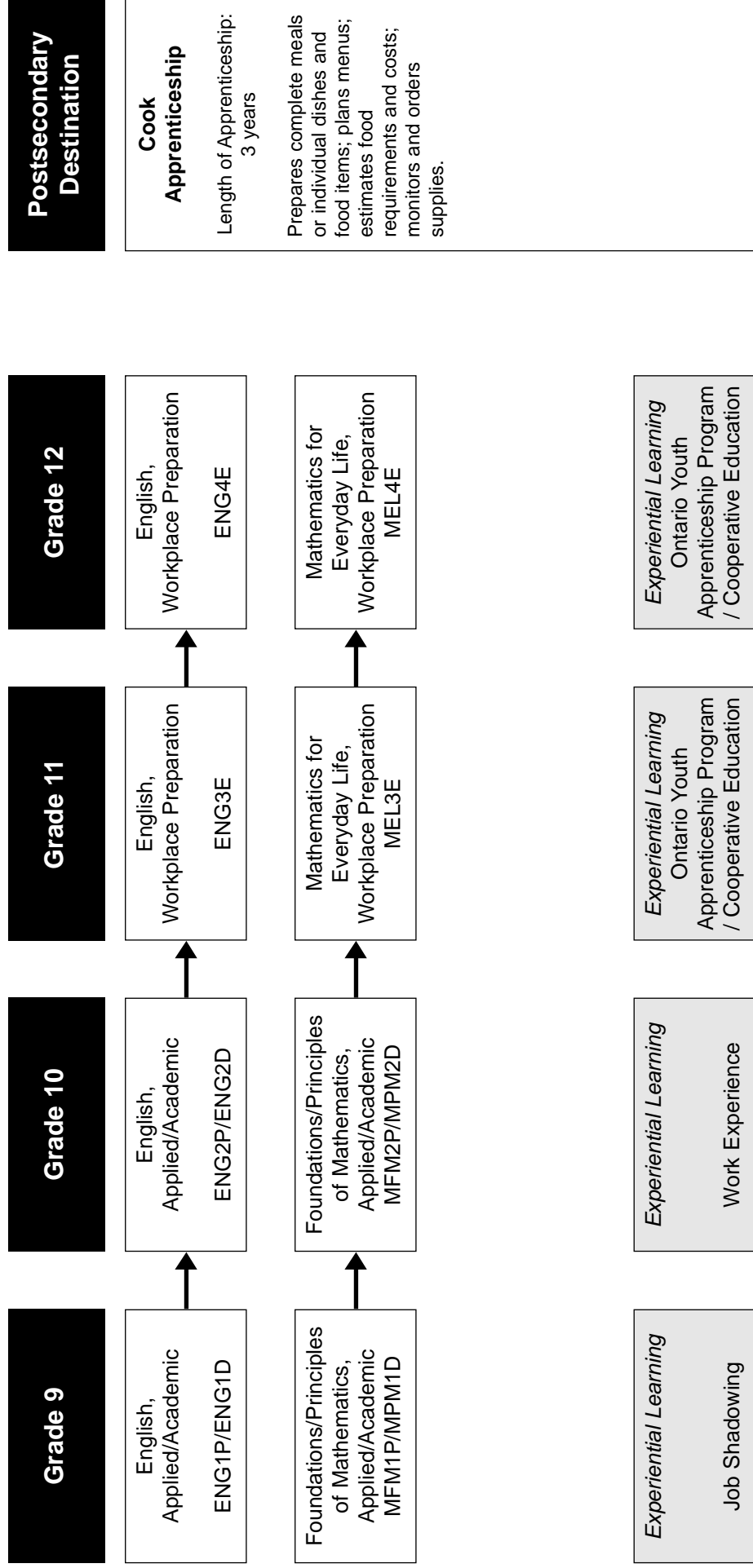
The academic requirement for an apprenticeship in this trade is Grade 12.



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Cook

The academic requirement for an apprenticeship in this trade is Grade 12.



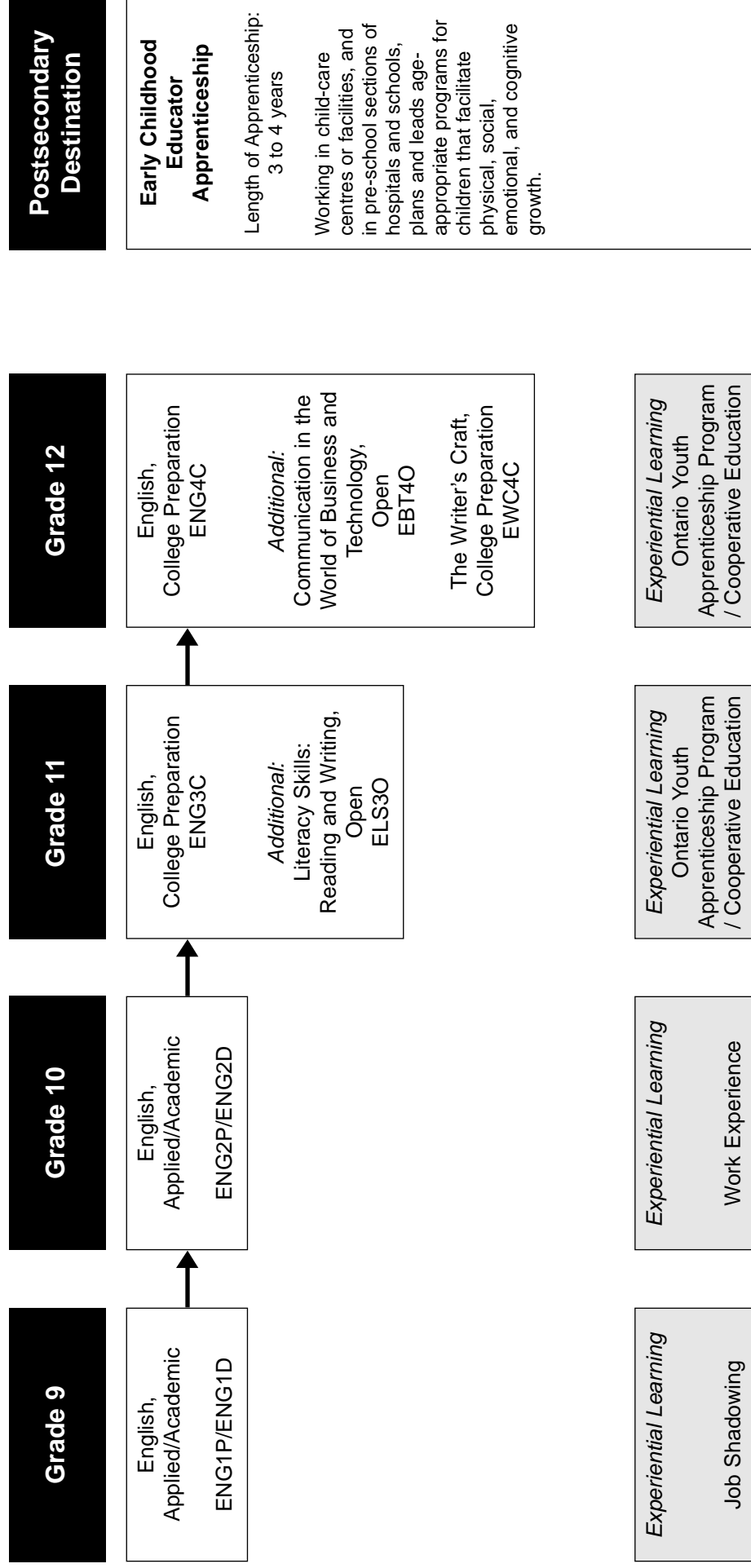
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Early Childhood Educator

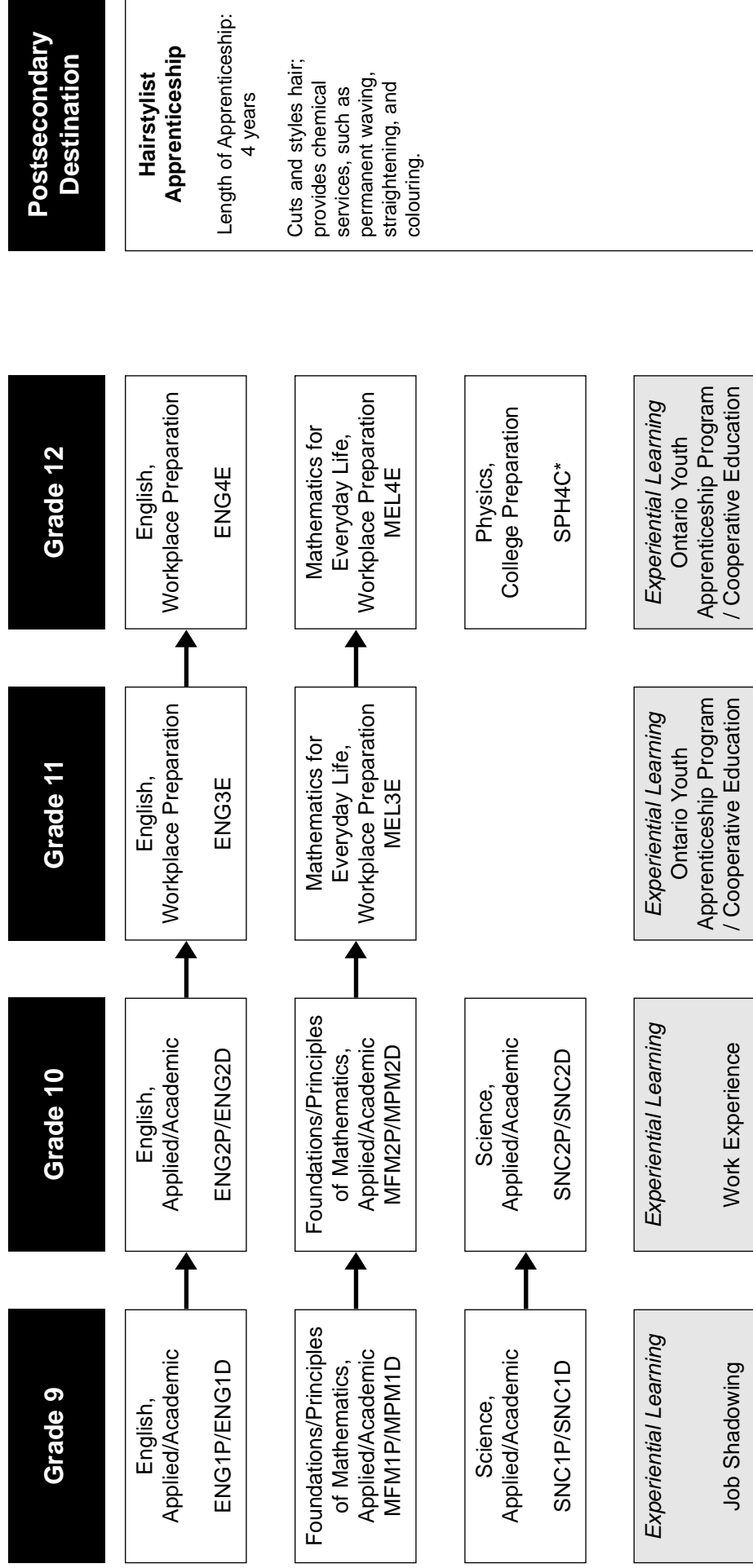
The academic requirement for an apprenticeship in this trade is Grade 12.



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Hairstylist

The academic requirement for an apprenticeship in this trade is Grade 12.



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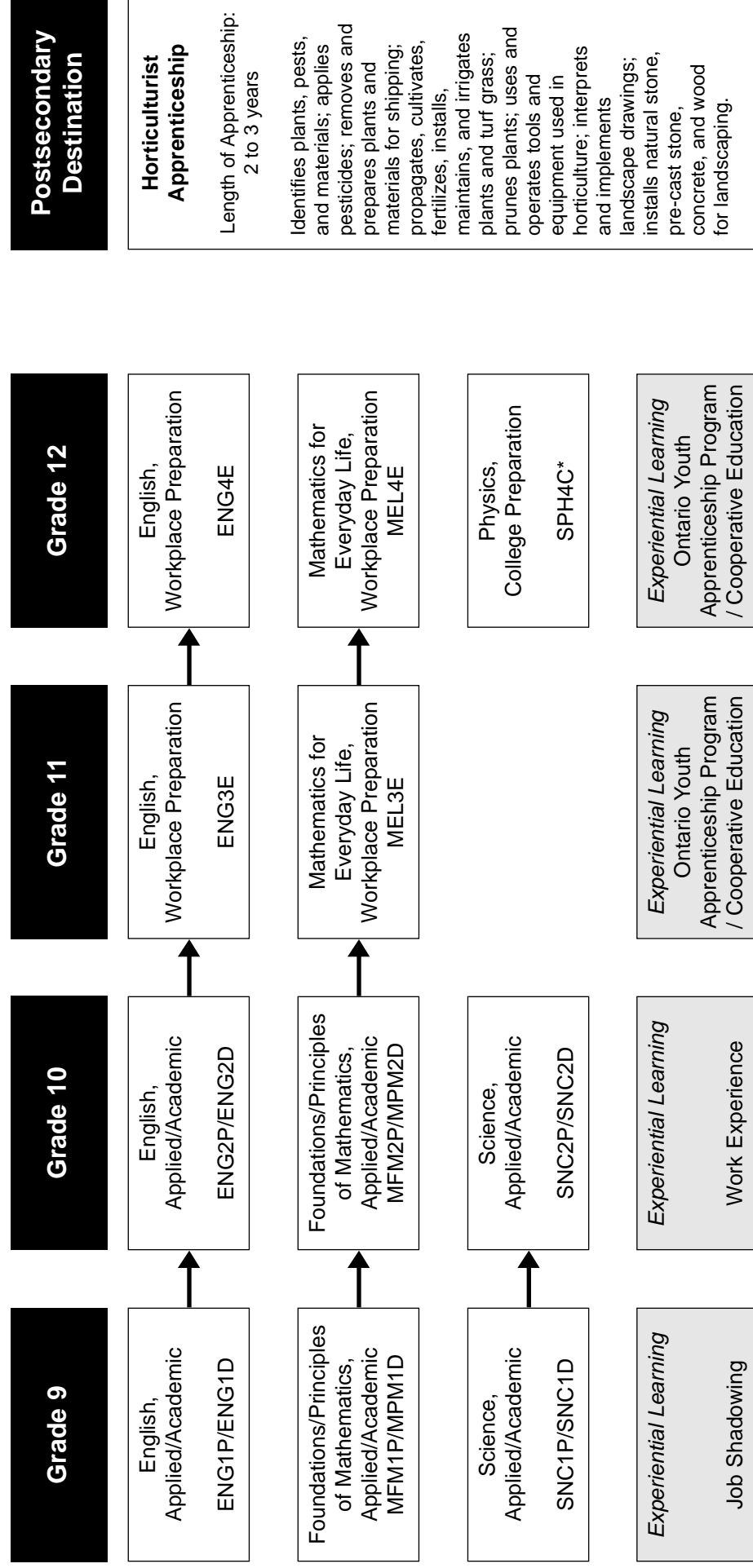
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Horticultural Technician

The academic requirement for an apprenticeship in this trade is Grade 12.



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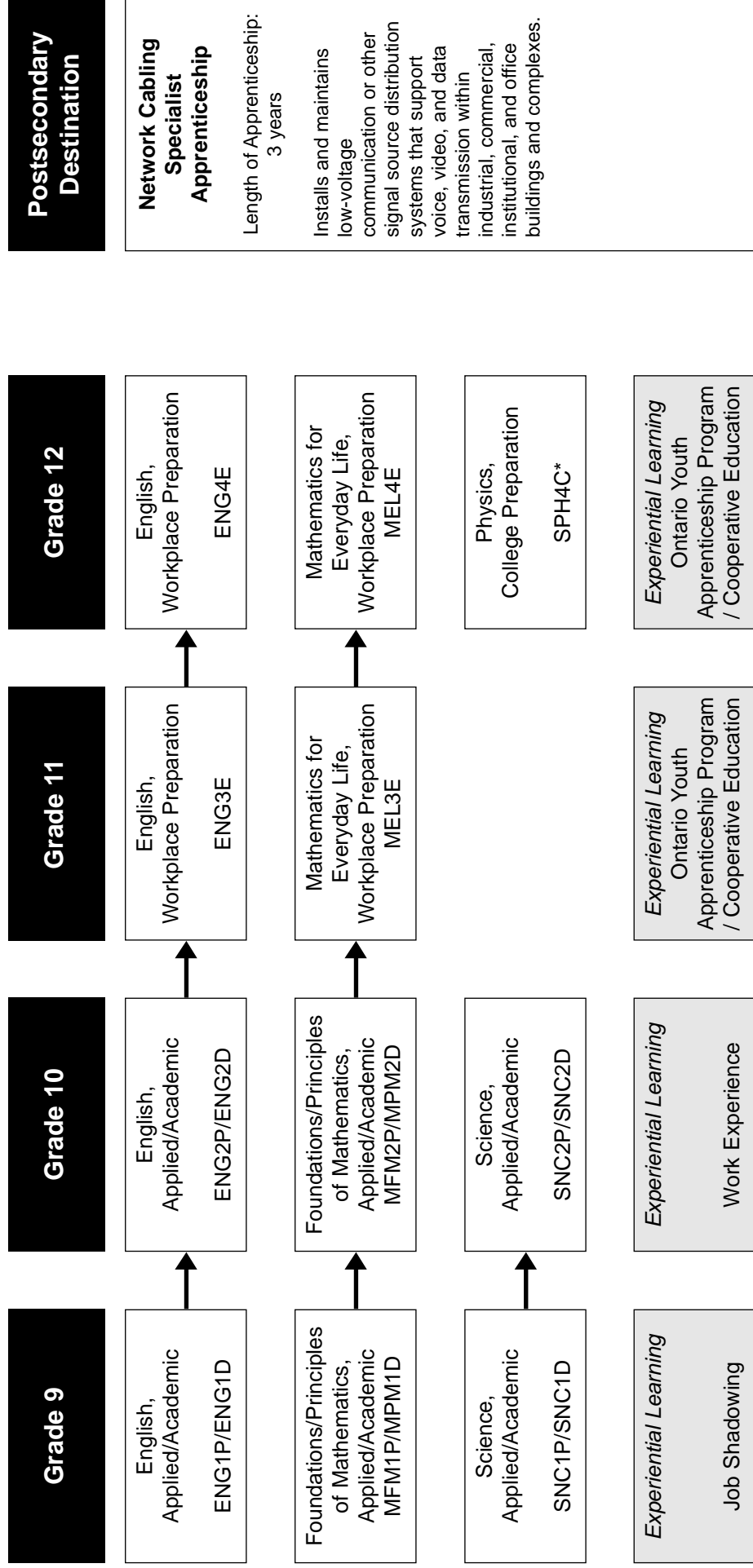
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Network Cabling Specialist

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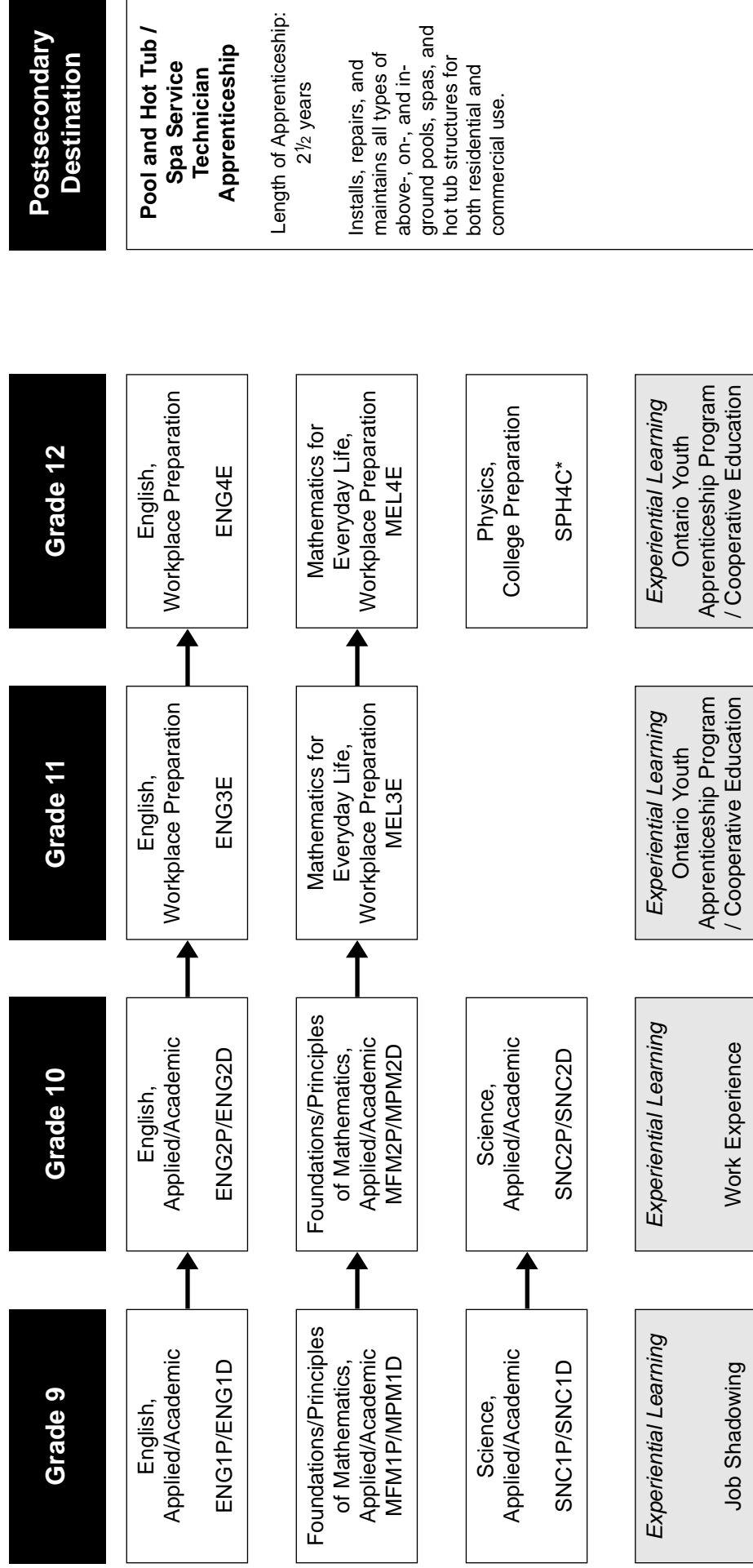
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Pool and Hot Tub / Spa Service Technician

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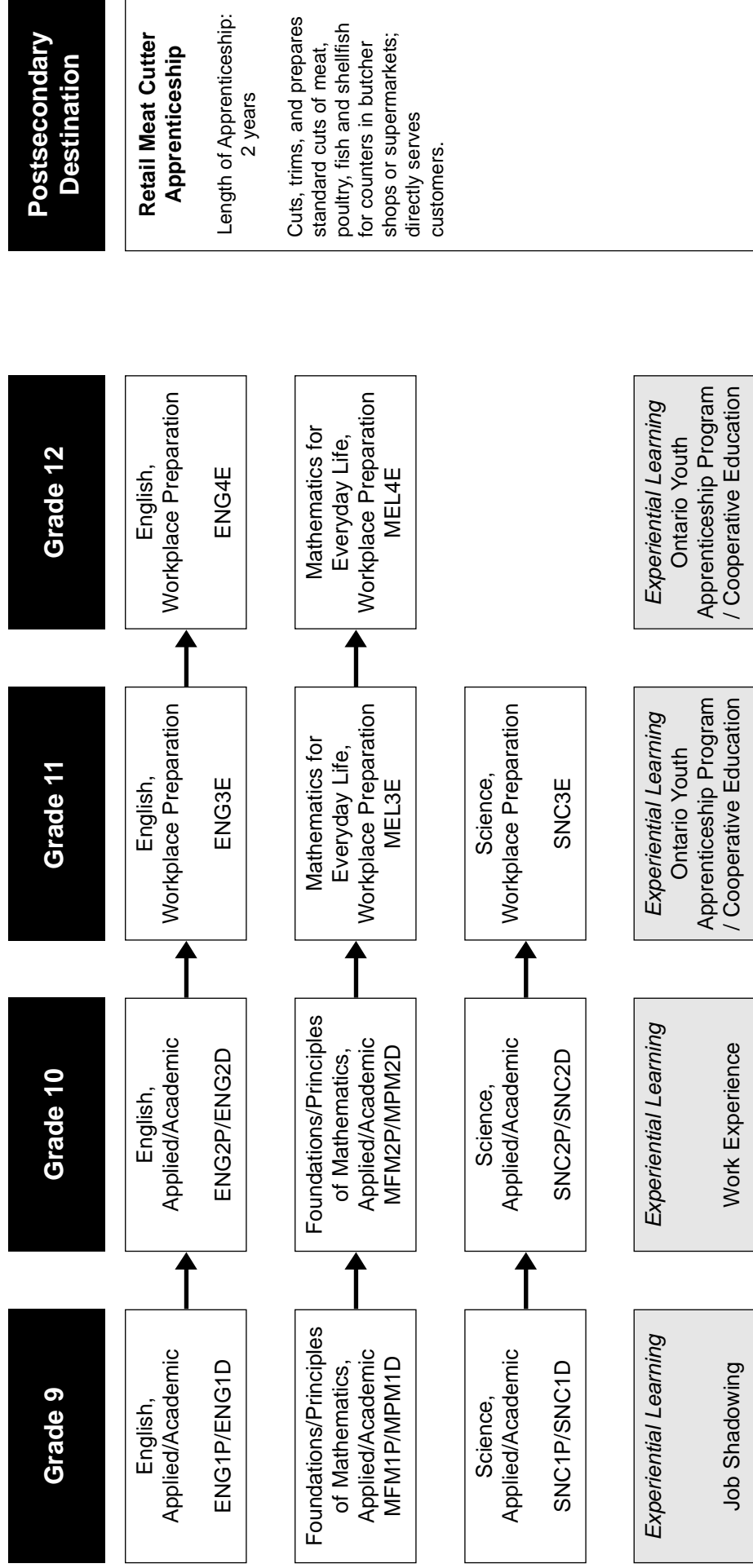
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Retail Meat Cutter

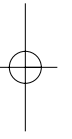
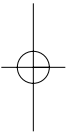
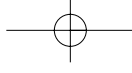
The academic requirement for an apprenticeship in this trade is Grade 12.



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