

# Introduction to Skilled Trades



Developed by

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## Lesson Order

1. What is Apprenticeship?
2. Trade IQ
3. Essential Skills
4. Anatomy of a Residential Framed House Wall
5. Worker Safety and Responsibilities
6. Measuring – Metric vs. Imperial
7. Basic Blueprint Theory
8. Exterior Wall Assembly
9. Career Pathway Scavenger Hunt
10. Additional Lessons

## Supplies Needed

- Reusable wood materials cut to blueprint specifications
  - If you wish to inquire about how to acquire these materials, please contact the Youth Apprenticeship Coordinator at 306-787-2368.
- Tape measure with both imperial and metric
- Green painter's tape
- Plastic storage container

## Statement for Kit Outcomes and Indicators

Saskatchewan Education identifies Practical and Applied Arts within the Saskatchewan curriculum.

Outcomes identified with Saskatchewan curriculum can be achieved in a variety of ways including hands-on activities available through Kit projects.

There should be a balance of subject area perspectives included in Middle Level PAA courses.

### Outcomes:

- Learning through an active – hands on approach
- Knowledge about the occupation carpenter
- How to read a tape measure
- How to read and interpret a plan/blueprint
- How to read and interpret technical language
- Understanding construction terminology

Here are a few of the outcomes and indicators that can be applied to this particular kit project. While these outcomes do represent what is being achieved through this project, it is important to note that there may be additional outcomes from a variety of curriculum areas which the classroom teacher may find applicable for their students.

<b>Curriculum</b>	<b>Outcome</b>	<b>Indicator</b>
Construction and Carpentry	Demonstrate safe work habits and an attitude of working safely with tools around others to prevent unintentional injuries	<ul style="list-style-type: none"> <li>a. Demonstrate an attitude of working safely for the benefit of self and others.</li> <li>b. Integrate high standards of safety practice into personal work habits including use of personal protective equipment (PPE).</li> <li>c. Act consistently to focus on personal tasks while maintaining a consciousness of others working in proximity.</li> </ul>
	Demonstrate proficiency and accuracy when measuring materials.	<ul style="list-style-type: none"> <li>a. Demonstrate accurate measurement to 1/16" or 1-2 millimeters with a pocket tape measure.</li> <li>b. Demonstrate how to draw a line parallel to a board's side with a combination square.</li> <li>c. Demonstrate how to check for level and plumb using a carpenter's level.</li> </ul>
	Demonstrate the procedures for framing and sheathing walls in residential construction.	<ul style="list-style-type: none"> <li>a. Demonstrate how to frame a wall and partitions using plates, studs, and corner posts based on 16" ( 400mm) on centre</li> </ul>
	Demonstrate basic woodworking skills to complete a simple project.	<ul style="list-style-type: none"> <li>a. a. Identify the needed tools, skills, timelines, and safety practices associated with a given project.</li> <li>b. b. Transpose measurements from a plan to material.</li> </ul>
	Explore and evaluate the career development and occupation opportunities in the field of construction and carpentry in Saskatchewan, Canada, and globally, including postsecondary education programs.	<ul style="list-style-type: none"> <li>a. a. Identify specific examples of occupational skills and occupations required in the construction trades.</li> <li>b. b. Investigate programs offered by the Saskatchewan Apprenticeship and Trade Certification Commission and technical institutes in carpentry.</li> <li>c. c. Investigate job opportunities in the construction trades.</li> </ul>

## Carpenters

Carpenters construct, erect, install, maintain and repair structures and components of structures made of wood, wood substitutes, lightweight steel and other materials. They are employed by construction companies, carpentry contractors, and maintenance departments of factories, plants and other establishments, or they may be self-employed.



## Example Titles

- apprentice carpenter
- carpenter
- finish carpenter
- journey person carpenter
- Sub trades: framer and scaffolder

## Main duties

Carpenters perform some or all of the following duties:

- Read and interpret blueprints, drawings and sketches to determine specifications and calculate requirements
- Prepare layouts in conformance to building codes, using measuring tools
- Measure, cut, shape, assemble and join materials made of wood, wood substitutes, lightweight steel and other materials
- Build foundations, install floor beams, lay subflooring and erect walls and roof systems
- Fit and install trim items, such as doors, stairs, molding and hardware
- Maintain, repair and renovate residences and wooden structures in mills, mines, hospitals, industrial plants and other establishments
- Supervise apprentices and other construction workers
- May prepare cost estimates for clients.

## Employment requirements

- Completion of secondary school is usually required.
- Completion of a four-year apprenticeship program and/or a combination of over four years of work experience in the trade and some high school, college or industry courses in carpentry is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available but voluntary, in all other provinces and the territories.
- Interprovincial trade certification (Red Seal) is also available to qualified carpenters.

## Websites

<a href="http://www.saskapprenticeship.ca">www.saskapprenticeship.ca</a>	<a href="http://www.saskjobs.ca">www.saskjobs.ca</a>
<a href="http://careersinconstruction.ca">careersinconstruction.ca</a>	
<a href="http://www.careersintrades.ca">www.careersintrades.ca</a>	