



9188

CARPENTRY TOOLS AND
EQUIPMENT (11A)

30S/30E/30M

A Carpentry Course

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Course Description

In this course, students will learn about hand, power, pneumatic, stationary, measuring, and layout tools and equipment, and their applications, maintenance, and procedures for use. It includes many of the objectives found in *Carpenter Level 1, Unit A3: Tools and Equipment*, from Apprenticeship Manitoba.

Goal 1: Describe and apply appropriate **health and safety** practices.

GLO 1.1: Describe and apply appropriate **health and safety** practices.

SLO 11A.1.1.1 Demonstrate an understanding of and adherence to health and safety practices.

SLO 11A.1.1.2 Identify personal protective equipment (PPE) and procedures. (A2.2)

- employer and employee responsibilities as related to personal protective equipment
- standards: CSA, ANSI (U.S.A. standards), etc.
- work protective clothing and danger if it fits poorly
- gloves—importance of proper glove selection (when handling chemicals, cold items, slivers, etc.)
- headwear—appropriate protective headwear when required and the approved type of headwear
- eye protection—comparison and distinction of everyday eyeglasses, industrial safety glasses, and safety goggles
- foot protection—when required according to safety standards
- hearing protection
 - hazards of various noise levels (hearing protection must be worn)
 - laws
 - types of hearing protection
- respiratory protection—types, overview of proper selection

- fall protection—Manitoba requirements standards guidelines
 - CSA
 - ANSI (U.S.A. standards), etc.
 - ladders and scaffolding
 - safety principles for working with or around industrial trucks site-specific (forklifts, pallet trucks, etc.)
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GLO 1.2: Demonstrate knowledge of the ***Trade Safety Awareness Manual***.

No applicable SLOs.

Goal 2: Demonstrate the identification, installation, and management of **materials**.

GLO 2.1: Demonstrate the identification, installation, and management of **materials**.

SLO 11A.2.1.1 Identify hazards and describe safe work practices pertaining to handling wood and wood products. (A6.2)

Goal 3: Demonstrate the identification, use, and management of **tools, equipment, fasteners, and adhesives**.

GLO 3.1: Demonstrate the identification, use, and management of **tools and equipment**.

- SLO 11A.3.1.1 Identify hazards and describe safe work practices pertaining to tools and equipment. (A3.2)
 - SLO 11A.3.1.2 Identify types of hand, power, pneumatic, stationary, measuring, and layout tools and equipment, and describe their applications and procedures for use. (A3.4) *(The remainder of this objective is taught in course #9194.)*
 - SLO 11A.3.1.3 Describe the procedures used to inspect, maintain, and store hand, power, pneumatic, stationary, measuring, and layout tools and equipment, and describe their applications and procedures for use. (A3.6) *(The remainder of this objective is taught in course #9194.)*
 - SLO 11A.3.1.4 Demonstrate the use of hand, power, pneumatic, stationary, measuring, and layout tools and equipment, and describe their applications and procedures for use. (A3.8) *(The remainder of this objective is taught in course #9194.)*
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GLO 3.2: Demonstrate the identification, use, and management of **fasteners and adhesives**.

SLO 11A.3.2.1 Demonstrate the identification, use, and management of fasteners and adhesives.

Goal 4: Demonstrate the basic **skills** of carpentry.

GLO 4.1: Demonstrate the skills related to **project drawings and specifications**.

No applicable SLOs.

GLO 4.2: Demonstrate the carpentry skills related to **layout, measurement, and assembly**.

No applicable SLOs.

GLO 4.3: Demonstrate the ability to determine **elevations** and lay out **building lines**.

No applicable SLOs.

GLO 4.4: Demonstrate the knowledge and skills associated with **concrete foundations**.

No applicable SLOs.

Goal 5: Follow the **ethical and legal standards** that pertain to carpentry.

GLO 5.1: Demonstrate an awareness of the **ethical and legal expectations** of carpenters.

No applicable SLOs.

Goal 6: Demonstrate **employability skills**.

GLO 6.1: Demonstrate **employability skills**.

SLO 11A.6.1.1 Demonstrate regular attendance and punctuality.

SLO 11A.6.1.2 Demonstrate accountability by taking responsibility for own actions.

SLO 11A.6.1.3 Demonstrate adaptability and effort.

SLO 11A.6.1.4 Demonstrate the ability to accept and follow direction and feedback.

SLO 11A.6.1.5 Demonstrate teamwork skills.

SLO 11A.6.1.6 Demonstrate the ability to stay on task and effectively use time.

GLO 6.2: Demonstrate **critical thinking** skills.

SLO 11A.6.2.1 Demonstrate problem-solving skills.

GLO 6.3: Demonstrate respectful interactions with individuals of different **cultures**.

No applicable SLOs.

Goal 7: Demonstrate an awareness of **sustainability** as it pertains to carpentry.

GLO 7.1: Describe the impact of the construction industry on **human sustainability** and the health and well-being of carpenters.

SLO 11A.7.1.1 Appreciate the impact of sustainable practices on human health and well-being.

GLO 7.2: Describe the construction industry's **sustainability practices** and impact on the environment.

No applicable SLOs.

Goal 8: Demonstrate an understanding of the **structure and scope** of carpentry.

GLO 8.1: Describe the **scope of** carpentry.

No applicable SLOs.

GLO 8.2: Describe **apprenticeship, post-secondary education, and employment opportunities**.

No applicable SLOs.

Goal 9: Demonstrate an understanding of the **evolution** of carpentry, including its **technological progression and emerging trends**.

GLO 9.1: Demonstrate an understanding of the **evolution** of carpentry, including its **technological progression and emerging trends**.

SLO 11A.9.1.1 Demonstrate an awareness of the evolution, technological progression, and emerging trends in tools and equipment.
