



9177

INTRODUCTION TO  
CABINETMAKING (10)

20S/20E/20M

A Cabinet and Furniture Making Course



# 9177: INTRODUCTION TO CABINETMAKING (10)

## 20S/20E/20M

### Course Description

This course gives students a broad, introductory overview of cabinet and furniture making. Students will learn about hand, power, pneumatic, stationary, measuring, and layout tools and equipment, their applications, and procedures for their use. Students will develop basic knowledge, skills, and attitudes related to cabinet and furniture making.

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

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

- SLO 10.1.1.1: Describe and apply health and safety practices.
- SLO 10.1.1.2: Create and maintain a safe and organized working environment.
- SLO 10.1.1.3: Identify personal protective equipment (PPE) and procedures. (A2.2)
- SLO 10.1.1.4: Identify regulations on the care and cleanliness of the working area. (A2.3)
- SLO 10.1.1.5: Identify regulations on the safe use of chemicals. (A2.4)
- SLO 10.1.1.6: Identify Workplace Hazardous Materials Information System (WHMIS) safety requirements. (A2.11)

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#### **Goal 2:** Demonstrate an understanding of the characteristics of **materials**.

##### **GLO 2.1:** Demonstrate an understanding of the characteristics of **materials**.

- SLO 10.2.1.1: Describe the materials of cabinetmaking and their preferred uses. (D1.1)
  - SLO 10.2.1.2: Explain wood technology concepts in relation to cabinetmaking practice. (D1.2)
  - SLO 10.2.1.3: Explain the classification and dimensioning of wood and wood products. (D1.3)
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**Goal 3:** Demonstrate the storage, selection, use, and management of **materials, fasteners, adhesives, and hardware.**

**GLO 3.1:** Demonstrate the storage, selection, use, and management of **materials.**

SLO 10.3.1.1: Demonstrate the storage, selection, use, and management of materials.

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**GLO 3.2:** Demonstrate the storage, selection, use, and management of **fasteners.**

SLO 10.3.2.1: Identify threaded and non-threaded fasteners and their preferred uses. (D2.1)

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**GLO 3.3:** Demonstrate the storage, selection, use, and management of **adhesives.**

SLO 10.3.3.1: Identify adhesive products and their preferred uses. (D2.2)

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**GLO 3.4:** Demonstrate the storage, selection, use, and management of **hardware.**

SLO 10.3.4.1: Demonstrate the storage, selection, use, and management of hardware.

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**Goal 4:** Demonstrate the identification, selection, operation, and maintenance of **tools and equipment.**

**GLO 4.1:** Demonstrate the identification, selection, operation, and maintenance of **tools and equipment.**

SLO 10.4.1.1: Demonstrate the identification, selection, operation, and maintenance of tools and equipment.

SLO 10.4.1.2: Describe the use, selection, and maintenance of tools and equipment. (A3.1)

SLO 10.4.1.3: Identify hand tools and describe their use, selection, and maintenance. (A3.2)

SLO 10.4.1.4: Identify portable power tools and describe their use, selection, and maintenance. (A3.3)

SLO 10.4.1.5: Identify stationary power tools and describe their use, selection, and maintenance. (A3.4)

SLO 10.4.1.6: Describe electrical power supply considerations in maintaining and troubleshooting cabinet-shop tools and equipment. (A3.5)

SLO 10.4.1.7: Demonstrate the safe use, selection, and maintenance of trade-related hand and power tools and equipment and stationary machines on an assigned project. (A3.6)

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**Goal 5:** Demonstrate the ability to interpret **blueprints** and to produce **drawings and layouts**.

**GLO 5.1:** Demonstrate the ability to interpret **blueprints** and to produce **drawings and layouts**.

SLO 10.5.1.1: Demonstrate the ability to create a freehand sketch.

SLO 10.5.1.2: Demonstrate the ability to create a list of materials from own sketch.

SLO 10.5.1.3: Demonstrate the ability to produce drawings and layouts.

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**Goal 6:** Demonstrate knowledge and skills related to **joinery and casework**.

**GLO 6.1:** Demonstrate knowledge and skills related to **joinery and casework**.

SLO 10.6.1.1: Demonstrate an awareness of basic joints used in casework.

SLO 10.6.1.2: Demonstrate the ability to cut basic joints using hand tools.

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**Goal 7:** Demonstrate knowledge and skills related to **finishing**.

**GLO 7.1:** Demonstrate knowledge and skills related to **finishing**.

SLO 10.7.1.1: Demonstrate an awareness of finishes.

SLO 10.7.1.2: Demonstrate the ability to apply at least one type of finish.

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**Goal 8:** Demonstrate knowledge and skills related to **installation**.

**GLO 8.1:** Demonstrate knowledge and skills related to **installation**.

No applicable SLOs.

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**Goal 9:** Describe and apply transferable **cross-curricular knowledge and skills** as they relate to cabinet and furniture making.

**GLO 9.1:** Demonstrate knowledge and skills from **mathematics** as they relate to cabinet and furniture making.

SLO 10.9.1.1: Review general mathematics concepts and the use of an electronic calculator. (B1.1)

SLO 10.9.1.2: Perform specified trade-related calculations. (B1.2)

SLO 10.9.1.3: Demonstrate the ability to manipulate fractions, decimals, ratios, and percentages.

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**GLO 9.2:** Demonstrate knowledge and skills from **information and communication technology** as they relate to cabinet and furniture making.

No applicable SLOs.

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**Goal 10:** Follow the **ethical and legal standards** that pertain to cabinet and furniture making.

**GLO 10.1:** Demonstrate an awareness of the **ethical and legal expectations** of cabinet and furniture makers.

No applicable SLOs.

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**Goal 11:** Demonstrate **employability skills**.

**GLO 11.1:** Demonstrate fundamental **employability skills**.

SLO 10.11.1.1: Demonstrate regular attendance and punctuality.

SLO 10.11.1.2: Demonstrate accountability by taking responsibility for own actions.

SLO 10.11.1.3: Demonstrate adaptability and effort.

SLO 10.11.1.4: Demonstrate the ability to accept and follow direction and feedback.

SLO 10.11.1.5: Demonstrate teamwork skills.

SLO 10.11.1.6: Demonstrate the ability to stay on task and to use time effectively.

SLO 10.11.1.7: Demonstrate the responsible use of electronic devices.

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**GLO 11.2:** Demonstrate **critical thinking skills**.

SLO 10.11.2.1: Demonstrate problem-solving skills.

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**GLO 11.3:** Demonstrate respectful interactions with individuals of different **cultures**.

No applicable SLOs.

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**Goal 12:** Demonstrate an awareness of **sustainability** as it pertains to cabinet and furniture making.

**GLO 12.1:** Describe the cabinet and furniture making industry's **sustainability practices** and their impact on the **environment**.

SLO 10.12.1.1: Demonstrate an awareness of wood and wood products as limited resources.

SLO 10.12.1.2: Demonstrate an awareness of opportunities to reduce waste and to reuse materials.

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**Goal 13:** Demonstrate an understanding of the **structure and scope** of cabinet and furniture making, including **education and career opportunities** and **working environments**.

**GLO 13.1:** Describe the **scope** of cabinet and furniture making.

No applicable SLOs.

**GLO 13.2:** Describe **apprenticeship, education, and employment opportunities** and **working environments** in cabinet and furniture making.

SLO 10.13.2.1: Describe the Manitoba cabinetmaker apprenticeship program. (A1.2)

SLO 10.13.2.2: Demonstrate an awareness of opportunities in cabinet and furniture making.

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**Goal 14:** Demonstrate an understanding of the **evolution** of cabinet and furniture making, including its **technological progression and emerging trends**.

**GLO 14.1:** Demonstrate an understanding of the **evolution** of cabinet and furniture making, including its **technological progression and emerging trends**.

No applicable SLOs.

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