



9186

APPLIED CABINET AND
FURNITURE MAKING (12D)

40S/40E/40M

A Cabinet and Furniture Making Course

9186: APPLIED CABINET AND FURNITURE MAKING (12D) 40S/40E/40M

Course Description

In this course, students will synthesize knowledge, skills, and attitudes they have learned in previous courses to complete projects. They will also prepare to transition into the cabinet and furniture making industry.

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

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

- SLO 12D.1.1.1: Describe and apply health and safety practices.
- SLO 12D.1.1.2: Create and maintain a safe and organized working environment.
- SLO 12D.1.1.3: Identify regulations on the use of scaffolding. (A2.5)
- SLO 12D.1.1.4: Identify regulations on the use of ladders and related equipment. (A2.6)
- SLO 12D.1.1.5: Identify ergonomics. (A2.7)
- SLO 12D.1.1.6: Identify the hazards of confined space entry. (A2.9)
- SLO 12D.1.1.7: Describe the safe storage of equipment in service vehicles. (A2.12)
- SLO 12D.1.1.8: Discuss the transportation of dangerous goods. (A2.13)

GLO 1.2: Demonstrate knowledge of the ***Trade Safety Awareness Manual***.

- SLO 12D.1.2.1: Explain the importance of trade safety and health in reducing injuries and fatalities to young employees in Manitoba. (TSA 1)
- SLO 12D.1.2.2: Describe the rights and responsibilities of employees, employers, and supervisors under *The Workplace Safety and Health Act*. (TSA 2)
- SLO 12D.1.2.3: Describe the steps to use in the Right to Refuse process. (TSA 3)
- SLO 12D.1.2.4: Explain how and where to find information on workplace safety and health. (TSA 4)
- SLO 12D.1.2.5: Demonstrate how to handle a potentially dangerous work situation. (TSA 5)
- SLO 12D.1.2.6: Explain the S.A.F.E. acronym. (TSA 6)

- SLO 12D.1.2.7: Define workplace safety and health hazards. (TSA 7)
- SLO 12D.1.2.8: Give examples of trade-specific workplace safety and health hazards. (TSA 8)
- SLO 12D.1.2.9: Give examples of five types of safety and health hazards. (TSA 9)
- SLO 12D.1.2.10: Define workplace safety and health risk. (TSA 10)
- SLO 12D.1.2.11: Give examples of trade-specific workplace safety and health risks. (TSA 11)
- SLO 12D.1.2.12: Explain the principles of hazard recognition and control as they apply to the specific trade. (TSA 12)
- SLO 12D.1.2.13: Explain the Workplace Hazardous Materials Information System (WHMIS). (TSA 13)
- SLO 12D.1.2.14: Match the WHMIS hazardous materials symbols and their meanings. (TSA 14)
- SLO 12D.1.2.15: Describe the importance of the Material Safety Data Sheets (MSDS). (TSA 15)
- SLO 12D.1.2.16: Describe the importance of using personal protective equipment (PPE). (TSA 16)
- SLO 12D.1.2.17: Demonstrate the proper selection and use of a variety of PPE and fall-protection systems. (TSA 17)
- SLO 12D.1.2.18: Outline the safety principles for working on and around electrical equipment. (TSA 18)
- SLO 12D.1.2.19: Outline workplace fire safety principles. (TSA 19)
- SLO 12D.1.2.20: Identify the hazards in confined spaces and the preparation needed to work in a confined space. (TSA 20)

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

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

- SLO 12D.2.1.1: Demonstrate an understanding of the characteristics of woods and wood products used in cabinetry and furniture making.

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 12D.3.1.1: Select appropriate wood and wood products based on their characteristics and the requirements of the project.
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GLO 3.2: Demonstrate the storage, selection, use, and management of **fasteners**.

SLO 12D.3.2.1: Demonstrate the selection and use of fasteners.

SLO 12D.3.2.2: Select appropriate fasteners based on their characteristics and the requirements of the project.

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

SLO 12D.3.3.1: Demonstrate the selection and use of adhesives.

SLO 12D.3.3.2: Select appropriate adhesives based on their characteristics and the requirements of the project.

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

SLO 12D.3.4.1: Demonstrate the selection and use of hardware.

SLO 12D.3.4.2: Select appropriate hardware based on their characteristics and the requirements of the project.

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 12D.4.1.1: Demonstrate the selection, operation, and maintenance of tools and equipment.

SLO 12D.4.1.2: 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)

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 12D.5.1.1: Demonstrate the knowledge and skills required to produce drawings and layouts, create cutting lists, and estimate costs.

SLO 12D.5.1.2: Demonstrate the ability to initiate and complete a project, including the design, drawings, layouts, and cutting lists.

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

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

SLO 12D.6.1.1: Determine the joinery and/or casework required for a project.

SLO 12D.6.1.2: Demonstrate the knowledge and skills required to produce the joints and/or casework for a project.

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

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

SLO 12D.7.1.1: Demonstrate an understanding of finishes typically used in the cabinet and furniture making industry.

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

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

SLO 12D.8.1.1: Demonstrate the knowledge and skills required to complete the installation of cabinetry and/or furniture.

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.

No applicable SLOs.

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

SLO 12D.9.2.1: Demonstrate the ability to conduct research on cabinet and furniture making employment and training opportunities.

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.

SLO 12D.10.1.1: Discuss ethical considerations related to the effective use of time during the workday.

Goal 11: Demonstrate **employability skills**.

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

SLO 12D.11.1.1: Demonstrate regular attendance and punctuality.

SLO 12D.11.1.2: Demonstrate accountability by taking responsibility for own actions.

SLO 12D.11.1.3: Demonstrate adaptability and effort.

SLO 12D.11.1.4: Demonstrate the ability to accept and follow direction and feedback.

SLO 12D.11.1.5: Demonstrate teamwork skills.

SLO 12D.11.1.6: Demonstrate the ability to stay on task and to use time effectively.

SLO 12D.11.1.7: Demonstrate the responsible use of electronic devices.

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

SLO 12D.11.2.1: Demonstrate the ability to solve complex, multi-stage problems related to the design, construction, and repair of cabinets and furniture.

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

SLO 12D.11.3.1: Demonstrate respectful interactions with individuals of different cultures.

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**.

No applicable SLOs.

GLO 12.2: Describe the impact of **sustainability** on the **health and well-being** of cabinet and furniture makers.

SLO 12D.12.2.1: Discuss the sustainability of the cabinet and furniture maker's working conditions, including working hours, out-of-town travel, and shift work.

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 12D.13.2.1: Describe challenges and opportunities in apprenticeship training. (A1.3)

SLO 12D.13.2.2: Demonstrate an awareness of accommodation requirements for apprentices with disabilities. (A1.4)

SLO 12D.13.2.3: Create a resumé and a portfolio to prepare for employment in the cabinet and furniture making industry.

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.
