



9182

FURNITURE MAKING (12A)

40S/40E/40M

A Cabinet and Furniture Making Course



# 9182: FURNITURE MAKING (12A)

## 40S/40E/40M

### Course Description

In this course, students will be introduced to furniture construction. Students will learn about furniture woods, adhesives, and hardware. They will produce joints as part of furniture-making projects.

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

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

SLO 12A.1.1.1: Describe and apply health and safety practices.

SLO 12A.1.1.2: Create and maintain a safe and organized working environment.

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

No applicable SLOs.

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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 12A.2.1.1: Demonstrate an understanding of the characteristics of woods and wood products used in furniture making.

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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**.

No applicable SLOs.

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

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

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

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

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

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

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

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

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

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

SLO 12A.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)

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

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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 12A.6.1.1: Describe considerations and choices in joinery and casework. (E1.1)

SLO 12A.6.1.2: Describe traditional joinery applications, their rationale, and preferred techniques for layout and use of specific joints. (E1.2)

SLO 12A.6.1.3: Describe contemporary and other types of traditional joinery and casework. (E1.3)

SLO 12A.6.1.4: Demonstrate the knowledge and skills required to construct pieces of furniture that incorporate a variety of joinery.

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

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

No applicable SLOs.

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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 12A.9.1.1: Review general mathematics concepts and the use of an electronic calculator. (B1.1)

SLO 12A.9.1.2: Perform specified trade-related calculations. (B1.2)

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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 12A.11.1.1: Demonstrate regular attendance and punctuality.

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

SLO 12A.11.1.3: Demonstrate adaptability and effort.

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

SLO 12A.11.1.5: Demonstrate teamwork skills.

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

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

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

SLO 12A.11.2.1: Demonstrate problem-solving skills.

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

SLO 12A.11.3.1: Demonstrate an awareness of cultural differences in the workplace.

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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**.

No applicable SLOs.

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

SLO 12A.12.2.1: Define sustainability as it relates to human health and well-being.

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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.

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

No applicable SLOs.

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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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