# Clustered Knowledge Assessment

## Criteria

### Name of the cluster

Design Cabinets

### Unit code, name and release number

MSFKB3010 - Detail cabinet construction requirements (1)

MSFKB4011 - Design ancillary residential cabinetry (1)

### Qualification/Course code, name and release number

MSF40318 - Certificate IV in Kitchen and Bathroom Design (1)

## Student details

### Student number

### Student name

## Assessment Declaration

This assessment is my original work and no part of it has been copied from any other source except where due acknowledgement is made.

No part of this assessment has been written for me by any other person except where such collaboration has been authorised by the assessor concerned.

I understand that plagiarism is the presentation of the work, idea or creation of another person as though it is your own. Plagiarism occurs when the origin of the material used is not appropriately cited. No part of this assessment is plagiarised.

### Student signature and Date

Version: *1.0*

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## Assessment instructions

Table 1 Assessment instructions

| Assessment details | Instructions |
| --- | --- |
| **Assessment overview** | The objective of this clustered assessment is to assess your knowledge in the following units:   * MSFKB3010 - Detail cabinet construction requirements (1) * MSFKB4011 - Design ancillary residential cabinetry (1)   ForMSFKB3010 you would be required to answer all the questions in this assessment.  For MSFKB3010 you would be required to answer all the questions in this assessment. |
| **Assessment Event number** | 1 of 2 |
| **Instructions for this assessment** | This is a clustered written assessment and it will be assessing you on your knowledge of all the units listed in this assessment.  This assessment is in two (2) parts:   1. Short answer questions   The assessment also contains:   1. Assessment feedback |
| **Submission instructions** | On completion of this assessment, you are required to upload it or hand it to your assessor for marking.  Ensure you have written your name at the bottom of each page of this assessment.  It is important that you keep a copy of all electronic and hardcopy assessments submitted to TAFE and complete the assessment declaration when submitting the assessment. |
| **What do I need to do to achieve a satisfactory result?** | To achieve a satisfactory result for this assessment all questions must be answered correctly. |
| **What do I need to provide?** | Calculator, pens, reference documents |
| **Due date/time allowed/location** | The estimated time for a student to complete this assessment is 120 minutes. However there is no time limit for students to complete this assessment. Students may complete the assessment outside of the classroom and submit to their teacher for marking. Assessment is due by week 16 |
| **Supervision** | This is an unsupervised, take-home assessment. Your assessor may ask for additional evidence to verify the authenticity of your submission and confirm that the assessment task was completed by you. |
| **Assessment feedback, review or appeals** | In accordance with the TAFE NSW policy *Manage Assessment Appeals,* all students have the right to appeal an assessment decision in relation to how the assessment was conducted and the outcome of the assessment. Appeals must be lodged within **14 working days** of the formal notification of the result of the assessment.  If you would like to request a review of your results or if you have any concerns about your results, contact your Teacher or Head Teacher. If they are unavailable, contact the Student Administration Officer.  Contact your Head Teacher for the assessment appeals procedures at your college/campus. |

## Part 1: Short answer

Read the question carefully. Your answer should be a minimum of ten words but no longer than one hundred words.

1. Describe how initial cabinetry requirements for a project can be confirmed
2. Provide three (3) examples of typical client requirements or site conditions, which can influence you determining design parameters and constraints.
3. Outline the steps you would take for measuring two walls shaped in an "L" shape.
4. Why is it important to record project requirements (provide 3 reasons)?
5. How can products and services change the design of projects? (provide 3 reasons)
6. Why is it important to provide the client with detail and 3D drawings? (Provide 2 reasons)
7. Give two (2) reasons why it is important to hold discussions and experimentations with the client?
8. What documents can confirm client preferences? (Give three examples)
9. Give a short explanation of the following types of drawings and what features they include.

Orthographic:

Isometric:

Freehand sketch:

Work shop:

1. How do drawing protocols help identify structural features that can impact on the design of a project. (Provide 3 examples)
2. What information needs to be given to the construction team to create the project to the client's request? (Provide 3 examples)
3. What information needs to be given to the installation team to create the project to the client's request? (Provide 3 examples)
4. Identify eight (8) of the main items that need to be included in an estimate for a project.
5. Describe the steps a designer would follow to present all the design documentation and cost estimate to a client in a professional format for a project worth between ten thousand and thirty thousand dollars.
6. List three steps you would take to work out the m² of white HMR particle board for all the cabinets in a kitchen?
7. What is in the document that should be completed prior to entering a worksite to ensure your safety is not compromised?(provide 2 items)
8. Describe how the layout of furnishings can be sustainable and reduce the green foot print. (give 2 examples)

1. Provide information about the following products.

Table Product information

|  |  |  |  |
| --- | --- | --- | --- |
| Product | Supplier | Feature | Average Cost |
| Standard cabinet door Hinge |  |  |  |
| Double profile Drawer sides |  |  |  |
| Side mounted Drawer runners |  |  |  |
| White HMR/PB 2.4x1.2x16mm |  |  |  |
| Reconstituted Stone 2.0x0.6x20mm |  |  |  |

1. Explain the differences between the manual drawing techniques listed below.

Free Hand Sketch:

Sectional Drawing:

Isometric Drawing:

Orthographic Drawing:

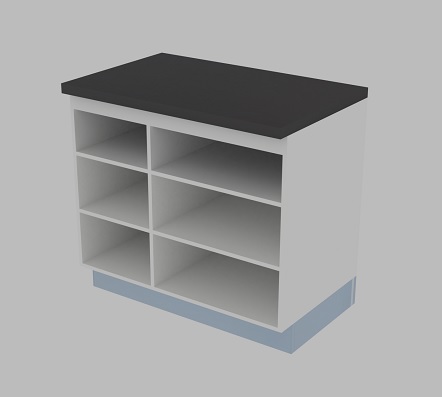
1. For each symbol below, prove the name and meaning.

Table Symbols

| Answer choices | Identify the Symbol |
| --- | --- |
| **[Image result for north point symbol](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=2ahUKEwjukqOFnPLiAhUbT30KHastApkQjRx6BAgBEAU&url=https://www.pinterest.com/hans8820/north-point/&psig=AOvVaw1wdJ7EA73w-rdAj_6GrlZA&ust=1560919346158654)**  © TAFE NSW 2019 | Symbol:  Meaning: |
| **[Image result for dimension lines](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=2ahUKEwi58Lu-o_LiAhWYWX0KHcYqBA4QjRx6BAgBEAU&url=https://commons.wikimedia.org/wiki/File:Dimension_Lines.png&psig=AOvVaw3EzyAoRPa-Eao_gzE-wEvY&ust=1560921359679654)**  © TAFE NSW 2019 | Symbol:  Meaning: |
| **[Related image](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=2ahUKEwjQ0-mut_LiAhVJf30KHSmfCVYQjRx6BAgBEAU&url=http://www.clker.com/clipart-28489.html&psig=AOvVaw2An3ZGYDmqVT-BdNY1XJNt&ust=1560926714441556)**  © TAFE NSW 2019 | Symbol:  Meaning: |
| **C:\Users\TLITTLE6.000\Pictures\Tafe pics\symbol_door_swing_single[1].gif**  © TAFE NSW 2019 | Symbol:  Meaning: |
| **C:\Users\TLITTLE6.000\Pictures\Tafe pics\symbol_window_in_cavity_wall[1].gif**  © TAFE NSW 2019 | Symbol:  Meaning: |
| **C:\Users\TLITTLE6.000\Pictures\Tafe pics\symbol_wall_cavity_brick[1].gif**  © TAFE NSW 2019 | Symbol:  Meaning: |

1. Identify the cabinet components.

6.



5.

3.

1.

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4.

2.

1. Describe how Computer- Aided Manufacturing *(CAM)* can affect cabinetry design includingthe features, limitations.

Table CAM

|  |  |  |  |
| --- | --- | --- | --- |
| Construction Type | Features | Limitations | Design Influences |
| CAM |  |  |  |

1. Identify three cabinet construction techniques created by a CNC machine, describe their features, limitations, and how these affect cabinetry design.

Table 5 CNC machine

|  |  |  |  |
| --- | --- | --- | --- |
| Construction Type | Features | Limitations | Design Influences |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. Describe how the current and emerging construction techniques, their features and limitations have affected custom manufacturing principles and processes.
2. Provide your understanding of what factors affect cabinet design and installation from the process heading in the first column.

Table 6 Design and installation

| Factors | Design | Installation |
| --- | --- | --- |
| Different methods of Installation |  |  |
| Installation requirements of appliances |  |  |
| Moisture and humidity considerations |  |  |
| Waterproofing considerations |  |  |
| Sequence of installation |  |  |
| Design Modifications |  |  |
| Services location |  |  |
| Availability of installation expertise |  |  |
| Site constraints |  |  |

1. Briefly describe the process to be followed within the supply chain, for ordering components and materials for kitchen and bathroom components.
2. Briefly describe the process to be followed for delivering components and materials for kitchen and bathroom components.

1. For the types of cabinetry listed in the table below, provide the characteristics, uses and limitations for each.

Table 7 Cabinetry

| Cabinetry | Characteristics | Uses | Limitations |
| --- | --- | --- | --- |
| Dressing Rooms |  |  |  |
| Entertainment Units |  |  |  |
| Home Offices |  |  |  |
| Shelving Units & Cupboards |  |  |  |
| Wine Cellars |  |  |  |
| Work Rooms |  |  |  |

1. Explain how the budget can impact on the requirements and parameters of a cabinet design. (Give 3 examples)
2. Describe how colour, style and tone can impact on the requirements and design parameters of a cabinet design. (Give 2 examples)
3. How can embedded technology affect requirements and design parameters? (Give 2 examples)
4. Describe how the quality of the finish in the client's requirements can affect the design parameters. (give 2 examples)
5. Describe how a client's requirements and design parameters of a new cabinet is impacted by the relationship to other features of the room. (give 2 examples)
6. Explain how the client's design parameters and requirements can impact on the structural and functional requirements of a cabinet design. (give 2 examples)
7. What can the requirements and design parameters do to the time line of a project? (give 2 examples)
8. Using the table below identify options for cabinetry structure, materials and components suitable for different applications.

Table 8 Cabinet structure

|  |  |  |  |
| --- | --- | --- | --- |
| Cabinet Structure | Material | Component | Suitable for other Applications |
| Biscuit Joint |  |  |  |
| Stopped Housing |  |  |  |
| Dovetail housing |  |  |  |
| Screwed Butt jointed |  |  |  |

1. How can installation methods impact on the design selection of cabinet construction?
2. Identify formats and required inclusions for design specifications.
3. Describe the process for calculating and documenting cabinetry cost.
4. Calculate how many square meters of white HMR particle board is required for the carcass of a sink cabinet 1000mm wide x 720mm high x 560mm deep.

## Part 2: Assessment Feedback

If you study online, your assessment outcome, feedback and acknowledgement will be in your online platform on the Assessment/Results page or in your Course progress area so this page won’t be completed.

### Assessment outcome

Satisfactory

Unsatisfactory

### Assessor Feedback

Was the assessment event successfully completed?

If no, was the resubmission/re-assessment successfully completed?

Was reasonable adjustment in place for this assessment event?

☐ Has the Assessment Declaration on page 1 of the assessment been signed and dated by the student?

☐ Are you assured that the evidence presented for assessment is the student’s own work?

*If yes, ensure it is detailed on the assessment document.*

Comments:

### Assessor name, signature and date:

### Student acknowledgement of assessment outcome

Would you like to make any comments about this assessment?

### Student name, signature and date

***NOTE: Make sure you have written your name at the bottom of each page of your submission before attaching the cover sheet and submitting to your assessor for marking.***