

Level 2 Technical Certificate in Architectural Joinery (7906-21)

Qualification Report 2023

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Introduction

This document has been prepared by the Chief Examiner and Principal Moderator; it is designed to be used as a feedback tool for centres in order to enhance teaching and preparation for assessment. It is advised that this document is referred to when planning delivery and when preparing candidates for City & Guilds Technical assessments.

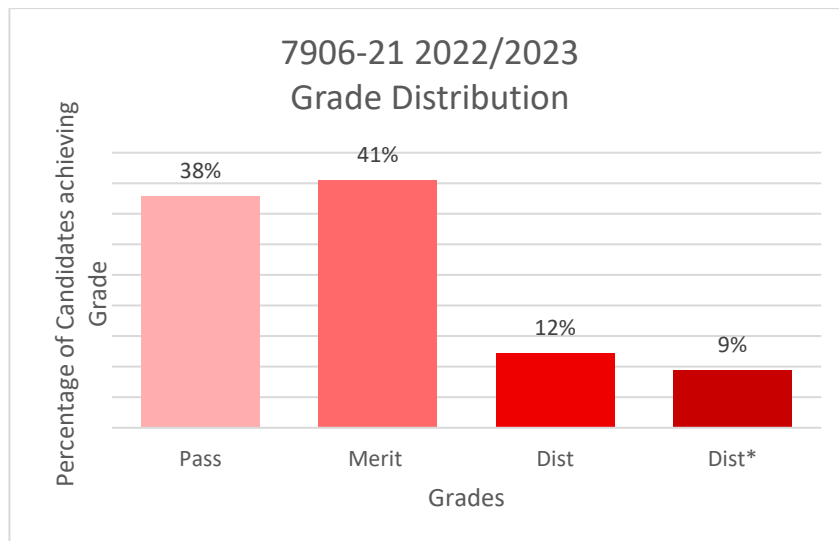
This report provides general commentary on candidate performance in both the synoptic assignment and theory exam. It highlights common themes in relation to the technical aspects explored within the assessment, giving areas of strengths and weakness demonstrated by the cohort of candidates who sat assessments in the 2023 academic year. It will explain aspects which caused difficulty and potentially why the difficulties arose.

The document provides commentary on the following assessments;

- 7906-005/505 Level 2 in Architectural Joinery – Theory exam
 - March 2023 (Spring)
 - June 2023 (Summer)
- 7906-006 Level 2 in Architectural Joinery – Synoptic Assignment

Qualification Grade Distribution

The grade distribution for this qualification during the 2022/2023 academic year is shown below;



This data is based on the distribution as of 25 August 2023.

Please note City & Guilds will only report qualification grades for candidates who have achieved all of the required assessment components, including Employer Involvement, optional units and any other centre assessed components as indicated within the Qualification Handbook

Theory Exam

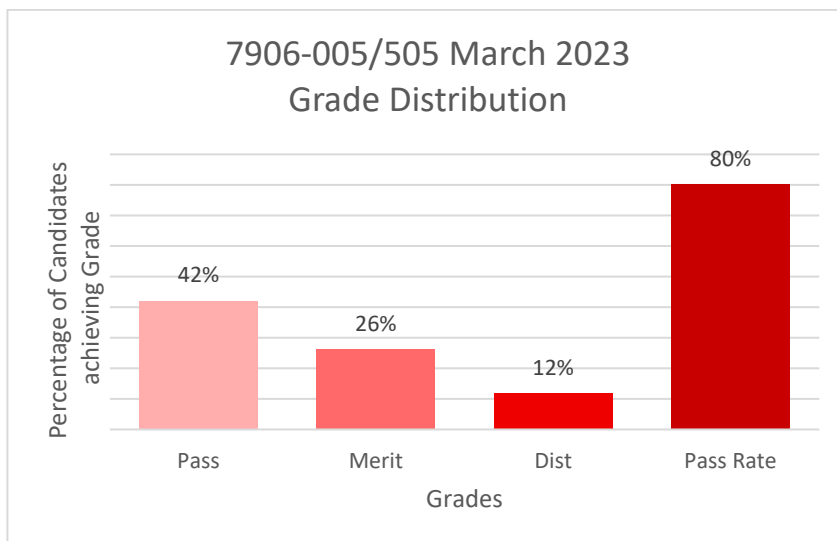
Grade Boundaries

Assessment: 7906-005/505
Series: March 2023 (Spring)

Below identifies the final grade boundaries for this assessment, as agreed by the awarding panel.

Total marks available	60
Pass mark	27
Merit mark	36
Distinction mark	45

The graph below shows the approximate distributions of grades and pass rate for this assessment.

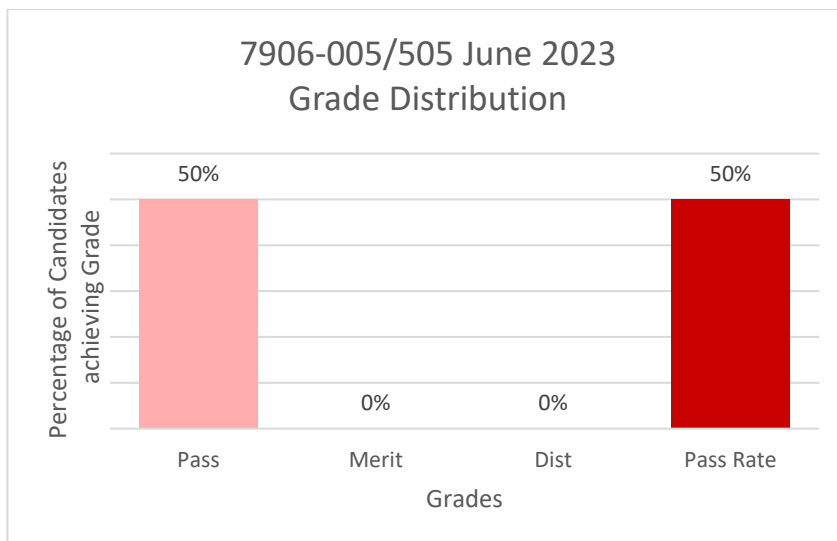


Assessment: 7906-005/505
Series: June 2023 (Summer)

Below identifies the final grade boundaries for this assessment.

Total marks available	60
Pass mark	26
Merit mark	35
Distinction mark	44

The graph below shows the approximate distributions of grades and pass rate for this assessment using the above boundary marks.



Chief Examiner Commentary

7906-005/505 Level 2 Architectural Joinery -Theory Exam

Series 1 – March 2023

This exam covers units 201 (Principles of construction), 206 (Planning and preparation for architectural joinery production) and 207 (Use of woodworking machinery).

The questions are broken down into three assessment objectives, AO1 (Recall), AO2 (Understanding) and AO4 (Applied Knowledge).

Candidates performed well this series, answering most of the AO1 (Recall), AO2 (Understanding) and AO4 (Applied Knowledge) questions correctly, which is an improvement from the previous series.

Unit 201 (Principles of construction), most questions were answered correctly, with the recall questions proving most challenging. Some topic areas also proved to be demanding, including those listed below:

- 1.2 Building team
- 2.2 Construction information
- 4.2 Building services

Unit 206 (Planning and preparation for architectural joinery construction), again, most questions were answered well. However, the recall questions proved quite challenging. Again, there were topic areas that were demanding for the candidates such as:

- 2.1 Common materials
- 3.2 Joints
- 3.4 Ironmongery

Unit 207 (Use of woodworking machinery), candidates performed very well on most questions, except for questions relating to pre-start checks.

To improve candidate performance, centres are advised to reinforce the above topics when delivering the underpinning knowledge of these subjects. Candidates must ensure they fully read the questions carefully before selecting their responses. They should also structure their time appropriately to ensure sufficient time to read the options and make their selection.

Series 2 – June 2023

This exam covers units 201 (Principles of construction), 206 (Planning and preparation for architectural joinery production) and 207 (Use of woodworking machinery).

The questions are broken down into three assessment objectives, AO1 (Recall), AO2 (Understanding) and AO4 (Applied Knowledge).

Generally, candidate responses were of a poorer standard than the candidate responses seen for the last two series. On average, 55% of the AO1 questions were answered correctly, 18% of the AO2 (Understanding) and 42% AO4 (Applied knowledge). Across the June 2023 cohort generally, candidate responses to Unit 206 questions were noticeably poor – candidates may benefit from more centre support in this area.

Unit 201 (Principles of construction), just over half of the questions saw candidates performing well, with the understanding questions proving most challenging. Some topic areas also proved to be more demanding, including those listed below:

- 2.3 Technical drawing.

Majority of questions relating to superstructure within Learning Outcome 5 Understand building superstructure, was a particular weak area for a significant proportion of candidates this series.

Unit 206 (Planning and preparation for architectural joinery construction), most questions performed poorly across each of the assessment objective, on AO1, AO2 and AO4 question types. Topic areas that were more demanding for the candidates were:

- 1.1 Interpret information (for setting out) (AO1 and AO2 questions).
- 1.2 Accuracy checks (AO2 and AO4 questions).
- 1.4 Joinery products (AO1 question).
- 2.1 Common materials and 2.2 Common materials and size (AO2 questions).
- 2.4 Properties of timber and manufactured boards (AO2 and AO4 questions).
- 3.2 Joints and 3.3 Profiles and moulding (AO2 questions).
- 3.4 Ironmongery (AO1 and AO4 question).

Topic 3.2 and 3.4 candidates consistently struggled with these two topics, and it is a continuing theme from previous series.

Centre would be encouraged to strengthen the teaching and learning in these two topics to enable candidates to be able to answer these questions across the assessment objective, but also reinforce the topics above where candidates have struggled with this series.

Unit 207 (Use of woodworking machinery), candidates performed better on this unit, but not as well as previous series. Areas of strength was on topic 2.2 planers, and this has been a theme from previous series that candidates have good recall and understanding of this topic area. Topic areas that were more demanding for the candidates were:

- 2.1 Saw parts.
- 2.3 Morticer.
- 2.4 Profiling machines and 3.1 changing tooling particularly on AO2 questions.
- 4.2 Use of planing machines, 4.3 Use morticer and 4.4 Use profiling machine. Candidates struggled with the AO2 understanding and AO4 applied knowledge questions within these topics.

To improve candidate performance, centres are advised to reinforce the above topics when delivering the underpinning knowledge of these subjects. Candidates must ensure they fully read

and understand the questions before selecting their responses. They should also structure their time appropriately to ensure sufficient time to read the options and make their selection.

Synoptic Assignment

Grade Boundaries

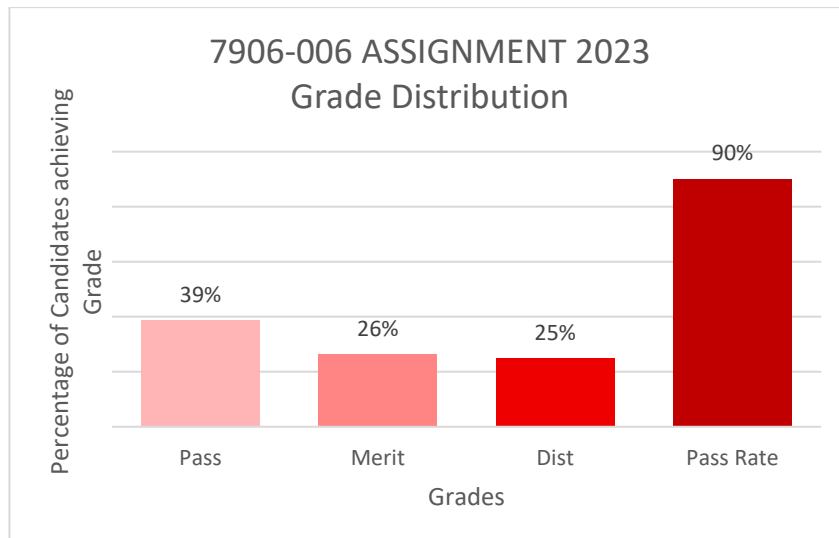
Below identifies the final grade boundaries for this assessment

Assessment: 7906-006

Series: 2023

Total marks available	60
Pass mark	25
Merit mark	33
Distinction mark	42

The graph below shows the distributions of grades and pass rate for this assessment.



Principal Moderator Commentary

The synoptic assignment is designed to cover the elements of the programme not assessed within the knowledge test.

This synoptic assignment has three distinct tasks:

Task 1: Planning

Candidates were required to produce a setting out rod for the top portion of a door frame including louvers, (Task 1a) and produce a cutting list (Task 1b).

Task 2: Practical

Candidates were required to manufacture the top portion of the door only.

Task 3: Reflection

Following completion and after time for reflection candidates had to complete a self-evaluation document.

Most candidates successfully completed all tasks; some to a much higher standard than others and this were reflected in the wide range of marks allocated.

Break down on each AO

AO1 Recall

Most candidates demonstrated good evidence of recalling knowledge across all tasks, selecting the correct tools and equipment for producing a setting out rod and producing an accurate cutting lists.

AO2 Understanding

A basic drawing was provided showing the front elevation of the door only. Hidden and joint detail was omitted allowing the marker to assess the candidates level of understanding, problem-solving ability when setting out and transferring lines from the rod to the timber sections.

AO3 Practical

Most candidates completed the task in the recommended time with various degrees of success most could be classified as fit for purpose with only minor errors while others did not fully meet this standard, the most common mistake been candidates not working to a recognised sequence and making simple errors that required replacement timber. i.e. Not allowing for the rebates and cutting tenon shoulders equally. Some good use of hand and portable power tools was observed with joints being tight and flush to all cheeks and shoulders while the lower scoring candidates had gaps to one or both faces with clear gaps around the tenon shoulders and louvers.

AO4 Bring it all together

Candidates that achieved the higher marks within AO4 seem to have familiarised themselves with the assessment brief, fully understood what was required and devised a sequence of operations that would enable them to complete the task timely, and to a standard that met the tolerances. Candidate work with gaps seen in the preparation and planning tended to be marked lower within this AO, as this had an impact on the later stages of the assignment. Adequate planning is essential in optimising marks scored and this was evident in candidate work.

AO5 Attention to detail

As architectural joinery is very much process driven, with tight tolerances required within industry. Attention to detail is paramount from start to finish in the manufacture of any joinery item, and the candidates that regularly checked measurements throughout the setting out stage tended to produce working drawings that were clean, accurate and easy to follow.

Using face side and edge marks correctly enabled the more organised candidates to mark all joints at the same time again demonstrating a comprehension of what is required to produce an accurate piece of architectural joinery.

Summary

Candidates would benefit from reading and fully understanding the brief before beginning to complete it. Candidates who planned a sequence of operations and regularly checked their setting out detail tended to produce the most accurate setting out detail with an accurate setting out rod and planned sequence of operations. Some good practices were seen in a number of candidate submissions - candidates that marked out in pairs, machining timber in batches and completed the task comfortably within the time, allowing them time to ensure the overall finish met the set tolerances. Candidates that did not work to a recognised sequence tended to make basic errors requiring replacement components, tenons cut to the incorrect size, large wedges filling gaps to joints poorly fitting louvers and had to rush to finish this resulted in an overall poor finish and lower marks been awarded.