

0171-023/523 – Level 2 Land-Based Engineering – Theory exam

March 2022

Examiner Report

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Introduction

This document has been prepared by the Chief Examiner, it is designed to be used as a feedback tool for centres to use in order to enhance teaching and preparation for assessment. It is advised that this document be referred to when preparing to teach and then again when candidates are preparing to sit examinations for City & Guilds Technical qualifications.

This report provides general commentary on candidate performance and 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 the **March 2022** examination series. It will explain aspects which caused difficulty and potentially why the difficulties arose, whether it was caused by a lack of knowledge, incorrect examination technique or responses that failed to demonstrate the required depth of understanding.

The document provides commentary on the following assessment;
0171-023/523 Level 2 Land-Based Engineering – Theory exam.

Theory Exam – March 2022

Grade Boundaries and distribution

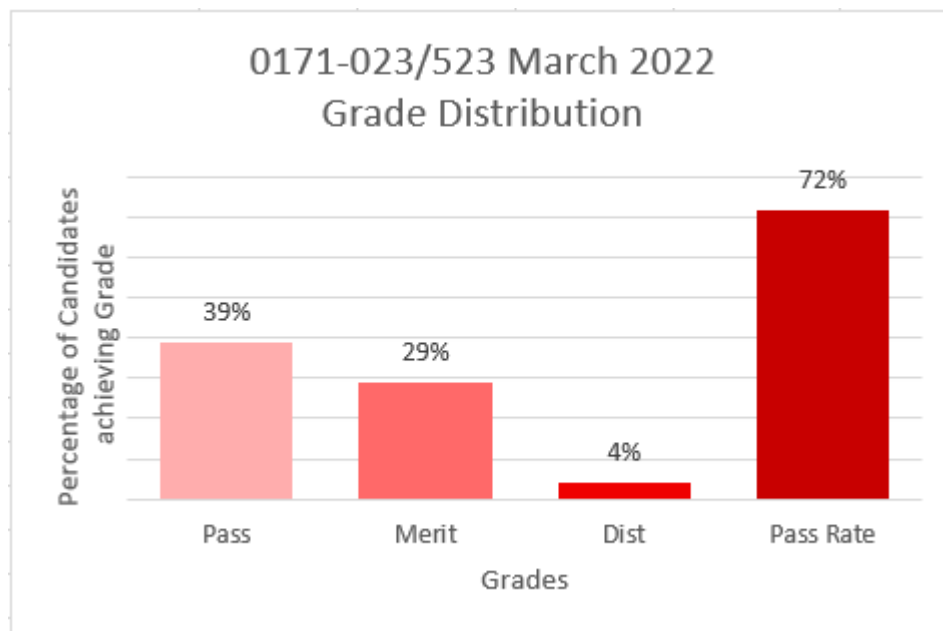
Assessment: **0171-023/523**

Series: **March 2022**

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

Total marks available	50
Pass mark	25
Merit mark	32
Distinction mark	40

The graph below shows the approximate distribution of grades and pass rates for this assessment:



Chief Examiner Commentary

General Comments on Candidate Performance

Assessment component: 0171-023/523

Series 1 (March)

Overall, candidates' performance was good and comparable to past series. The paper showed the same characteristics of those sat in the previous series in terms of range, suitability, and level. Candidates, on the whole, demonstrated strong recall when identifying components across all topic areas. Candidates' knowledge and understanding of health and safety (Q24) was strong, however, there was a general trend of inaccuracy when responding to questions specifically around testing tasks (Q17 and Q25).

Candidates were able to identify machinery correctly (Q34) and demonstrated knowledge and understanding of warning lights and symbols (Q6 and Q39). The high scoring candidates demonstrated the ability to recall knowledge across all the topic areas demonstrating their breadth of understanding. A particular area of strength across all candidates was evident within the topic areas of electrics and hydraulics (Q16 and Q22).

Candidates did demonstrate weakness in identifying both electrical and hydraulic symbols (Q27). This was a change to the previous series where this was a particularly strong area. Many of the high scoring candidates did not access marks from questions around testing procedures and tooling used for test processes.

Candidates were set applied knowledge questions (Q41 to Q50) based around the service and repair of a mower conditioner. They were given a scenario and various technical information to assist in their responses. High scoring candidates performed well demonstrating an understanding of terminology and applying a high level of logic. Mid-range performers accessed marks on a far less regular basis, however, were still able to demonstrate a good level of knowledge and understanding particular around the health and safety elements of the task.

Centres are continuing to prepare students to a good standard as demonstrated by the continued overall pass rate. To enhance this preparation further candidates would benefit from having a wider breadth of knowledge around hydraulic and electrical symbols. Engine component identification is strong, however, increasing candidates' awareness of component function would increase their breadth of knowledge further. Continuing to focus on basic diagnostic processes and tooling will also benefit candidates in future series.

Past papers and marking schemes are available on the City and Guilds website which should be used for exam practice.

City & Guilds also offers a technical exam guide to support the work on the exam technique.

All documents are available to download from [Technicals in Agriculture and Land-based Engineering qualifications and training courses | City & Guilds \(cityandguilds.com\)](https://www.cityandguilds.com/qualifications/technical-qualifications)

Past papers and marking schemes: Documents – Level 2 – Assessment materials – Past Papers tabs

Exam guide: Documents – Level 2 – Assessment materials