

1145-532 Level 3 Engineering – Theory Exam

March 2023

Examiner Report

Contents

Introduction	3
Theory Exam – March 2023.....	4
Grade Boundaries.....	4
Chief Examiner Commentary.....	5

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 2023** 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;

1145-532 – Level 3 Engineering – Theory Exam

Theory Exam – March 2023

Grade boundaries and distribution

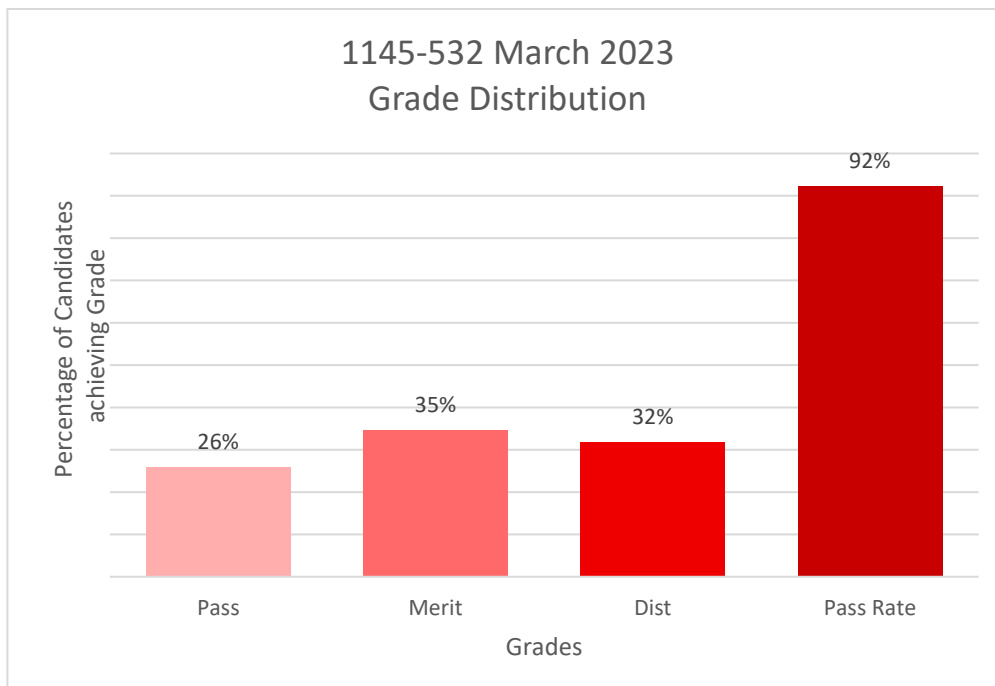
Assessment: **1145-532**

Series: **March 2023**

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

Total marks available	60
Pass mark	23
Merit mark	31
Distinction mark	40

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



Chief Examiner Commentary

Assessment component: 1145-532

Series March 2023

Overall, candidates' performance on the paper improved when compared to last year. The questions covered a wide range of technical knowledge in the specification and were pitched at an appropriate level. The breakdown of available marks per unit was the same as previous papers. Most candidates demonstrated a good level of knowledge recall and understanding of the topics over the majority of the paper.

One of the topics that was answered well on this paper was on chip cutting processes. This was a knowledge recall question, so a good performance was expected. A further area that was answered well was on advantages of low carbon technologies. Candidates were able to show a good range of knowledge on these questions.

Compared to previous series, questions on virtual reality, augmented reality and cloud computing have been answered very well. This is likely due to an increased use of and reliance on these topics in candidates' day to day lives such as virtual reality headsets and augmented reality games.

The question paper as a whole was well answered so it is difficult to pick out areas of weakness, but one area that stands out is the disadvantage of low carbon technologies, which sticks out due to the cohort's strong performance on the advantages of low carbon technologies.

The extended response question was awarded the full range of marks. Most candidates were able to get into the second band of available marks. In the cases where candidates did not perform well on this question, they only focussed on a relatively small range of considerations in depth. To achieve higher marks, they needed to include a greater variety of considerations.

Performance on this paper was very strong with no particular areas of weakness. However, the main area candidates could have improved was their answer to the extended response question and including more variety of considerations. Some candidates may have benefitted from mapping their response out before answering in full, so any considerations could be listed out.