IQM3003

LEVEL 3 · CONTROLLED STAFF DOCUMENT

INTO QUALIFICATIONS

Mathematics and Data Handling

Component 2: Data-handling presentation

STAFF ONLY · Marking framework

Duration
5–10 minutes for the whole group, including questions

Total marks
100

Assessment window
_____

Assessment set
Set S of 2026

Audience
Markers and moderators

Release timing
at coursework release

Marking rules

- Mark each candidate individually out of 100.
- Score AO1 out of 100 and apply the 0.40 weighting. Apply the shared 0.60 weighting to the AO2/AO3 strand, but record AO2 and AO3 evidence separately before agreeing its single raw score. AO2 requires mathematical reasoning: explain deductions and inferences, assess the validity of mathematical arguments and use mathematical language, syntax and notation accurately. AO3 requires translating the college travel question into statistical processes or models, interpreting results in context, evaluating accuracy and limitations, and explaining how the model or future study could be refined. Record each objective's evidence separately; do not infer one from the other or assign an unapproved numerical split within the shared 60%. Use the controlled descriptors to agree one score for the combined strand; do not apply a priority rule between AO2 and AO3.
- Marker 1 and Marker 2 record independent scores before agreeing the final scores.
- Use the controlled Excel mark record for automatic weighting and the agreed overall mark.
- The electronic group submission informs questioning but is not a separately marked artifact.

IQM3003 A2 · Analytic grading criteria

Apply both criterion columns using the controlled 40% / 60% weighting. Within the shared 60% criterion, record AO2 evidence and AO3 evidence separately before agreeing the single score. Use the task brief and supplied dataset to assess the outcome evidence required and permitted by the task, applying the controlled descriptors and best-fit judgement. Record AO2 and AO3 separately; use the combined-strand descriptors to agree one score. Do not infer one objective from the other or apply a numerical split or priority rule between them.

Performance level	Mark range	AO1 · Standard statistical techniques 40% Accurate recall of statistical terminology and correct execution of standard procedures.	AO2/AO3 · Mathematical reasoning and contextual modelling (shared 60% strand; evidence recorded separately) 60% AO2: explain and justify deductions or inferences and assess their mathematical validity. AO3: model the travel context, interpret findings in context, evaluate limitations and explain a suitable refinement.
A*	80–100	• Meets the A standard and, in addition, demonstrates exceptional control, independence and insight. • Carries out standard statistical procedures accurately, fluently and independently, using precise terminology.	• Meets the A standard and, in addition, demonstrates exceptional control, independence and insight. • Constructs rigorous reasoning, tests inference validity and uses precise notation; builds and evaluates contextual statistical models, including limitations and refinements, insightfully. • Sustains independent judgements and proposes precise model refinements.
A	70–79	• Carries out relevant procedures correctly with only minor errors and uses terminology accurately. • Performance is secure and sustained, with only minor lapses.	• Explains mathematical reasoning and checks inference validity; models the context and interprets findings with supported evaluation of limitations or refinements. • Explains how limitations affect the recommendation.
B	60–69	• Carries out most procedures correctly; occasional errors do not undermine the main results. • Performance is generally competent but may be uneven in depth or control.	• Gives relevant reasoning and some validity checks; uses a suitable contextual model and interprets results with some comment on limitations. • Identifies a relevant limitation or condition.
C	50–59	• Uses relevant procedures with some errors or gaps but produces partly useful results. • Performance is adequate overall, although development and control are inconsistent.	• Provides basic mathematical explanation or inference; uses a simple contextual process and gives a partly contextual interpretation, with limited validity or limitation analysis. • Identifies a limitation but gives little account of its impact.
D	40–49	• Uses procedures inconsistently; errors or omissions materially limit the results. • Performance is partial and limited, with significant gaps or inaccuracies.	• Reasoning or validity checks are limited; use of a contextual model or interpretation is incomplete or weakly supported. • Offers limited contextual comment without adequate support.
E	30–39	• Attempts relevant procedures, but results are mostly inaccurate or incomplete. • Performance is minimal and rarely sustained.	• Attempts relevant reasoning or contextual model use, but analysis, contextual interpretation or consideration of limitations is minimal. • Performance is minimal and rarely sustained.
U	0–29	• No adequate evidence of recalling or carrying out standard statistical procedures.	• No adequate evidence of mathematical reasoning and validity checking or of contextual modelling and interpretation.

Detailed criterion feedback and moderation record

Required for every learner. Record the applicable band and specific evidence for each criterion, with a focused improvement action. Marker 1 and Marker 2 must make independent decisions before agreeing the final scores. Keep both original decisions visible and record how any disagreement was resolved.

Learner ID:	**Delivery centre ID:**
Presentation date:	**Recording/reference:**

Contemporaneous observation notes

Record concise, contemporaneous observations from the presentation and questioning. Note the evidence used in the criterion decisions below.

Criterion-linked feedback

Criterion / component	Evidence supporting the judgement	Improvement / feed-forward action
AO1 · Standard statistical techniques Accurate recall of statistical terminology and correct execution of standard procedures.	Performance evidence:	Focused action:
AO2/AO3 · Mathematical reasoning and contextual modelling (shared 60% strand; evidence recorded separately) AO2: explain and justify deductions or inferences and assess their mathematical validity. AO3: model the travel context, interpret findings in context, evaluate limitations and explain a suitable refinement.	Performance evidence:	Focused action:

Marking and moderation trace

Enter each marker's AO1 raw score and combined AO2/AO3 raw score out of 100. Apply the approved 0.40 and 0.60 weightings when agreeing the final mark. In the evidence notes, identify AO2 and AO3 evidence in separate labelled entries; do not create a separate weighting between those objectives.

Criterion / component	Maximum / weighting	Marker 1	Marker 2	Agreed final
AO1 · Standard statistical techniques Accurate recall of statistical terminology and correct execution of standard procedures.	40%	Mark / decision:	Mark / decision:	Mark / decision:

Criterion / component	Maximum / weighting	Marker 1	Marker 2	Agreed final
AO2/AO3 · Mathematical reasoning and contextual modelling (shared 60% strand; evidence recorded separately) AO2: explain and justify deductions or inferences and assess their mathematical validity. AO3: model the travel context, interpret findings in context, evaluate limitations and explain a suitable refinement.	60%	Mark / decision:	Mark / decision:	Mark / decision:
Overall final result	**/100**			

Transfer the agreed final result to the existing final-mark field. Record Marker 1 and Marker 2 identities, dates, disagreement and agreed action in the existing evidence and moderation notes.

Candidate evidence record

Evidence and moderation notes

Record concise evidence for AO1, AO2 and AO3 in separate labelled entries, the questions asked, any disagreement and how the agreed combined AO2/AO3 score was reached.