

Instrument-specific marking guide (IA3): Project — folio (25%)

Criterion: Retrieving and comprehending

Assessment objectives

1. recognise and describe key elements of an application, components of data exchange systems, and data security processes
2. symbolise and explain data interface, structures and specifications; data flow relationships within and between systems; and digital methods of exchanging data

The student work has the following characteristics:	Marks
<ul style="list-style-type: none"> • <u>accurate</u> and <u>discriminating</u> recognition and discerning description of key elements of an application, components of data exchange systems, and data security processes • <u>adept</u> symbolisation and <u>discerning</u> explanation of data interface, structures and specifications; data flow relationships within and between systems; and digital methods of exchanging data. 	5–6
<ul style="list-style-type: none"> • <u>appropriate</u> recognition and description of key elements of an application, components of data exchange systems, and data security processes • <u>competent</u> symbolisation and appropriate explanation of data interface, structures and specifications; data flow relationships within and between systems; and digital methods of exchanging data. 	3–4
<ul style="list-style-type: none"> • <u>variable</u> recognition and <u>superficial</u> description of elements of an application, components of data exchange systems, or data security processes • variable symbolisation and superficial explanation of aspects of data interface, data flow relationships or digital methods of exchanging data. 	1–2
<ul style="list-style-type: none"> • does not satisfy any of the descriptors above. 	0

Criterion: Analysing

Assessment objectives

3. analyse a data exchange problem and information related to data security
4. determine data exchange system requirements, a security strategy for data, and prescribed and self-determined criteria

The student work has the following characteristics:	Marks
<ul style="list-style-type: none"> • <u>insightful</u> analysis of the data exchange problem and <u>relevant</u> information related to data security to identify the data structures, data exchange methods, risks to data and code components • <u>astute</u> determination of data exchange requirements, security strategy for data, code for the data conversion program and <u>essential</u> prescribed and self-determined criteria. 	6–7
<ul style="list-style-type: none"> • <u>considered</u> analysis of the data exchange problem and relevant information related to data security to identify the data structures, data exchange methods, risks to data and code components • <u>logical</u> determination of data exchange requirements, security strategy for data, code for the data conversion program and <u>effective</u> prescribed and self-determined criteria. 	4–5
<ul style="list-style-type: none"> • appropriate analysis of the data exchange problem and information related to data security to identify the data structures, data exchange methods, risks to data and code components • <u>reasonable</u> determination of data exchange requirements, security strategy for data or code for the data conversion program and some criteria. 	2–3
<ul style="list-style-type: none"> • makes statements about aspects of the data exchange problem, data structures, data exchange methods, risks to data or code components • <u>vague</u> determination of some data exchange requirements, security strategy for data and some criteria. 	1
<ul style="list-style-type: none"> • does not satisfy any of the descriptors above. 	0

Criterion: Synthesising and evaluating

Assessment objectives

5. synthesise information and ideas to determine selected data, algorithms and coded components of data exchange solutions
6. generate components of the data exchange solution
7. evaluate impacts, coded components and a data exchange solution against prescribed and self-determined criteria to make refinements and justified recommendations

The student work has the following characteristics:	Marks
<ul style="list-style-type: none"> • <u>coherent</u> and <u>logical</u> synthesis of <u>relevant</u> information and ideas to determine selected data, algorithms and coded components of data exchange solutions • <u>purposeful</u> generation of <u>efficient</u> components of the data exchange solution • <u>critical</u> evaluation of impacts, coded components and a data exchange solution against <u>essential</u> prescribed and self-determined criteria to make discerning refinements of code and astute recommendations justified by data. 	7–8
<ul style="list-style-type: none"> • logical synthesis of relevant information and ideas to determine data, algorithms and coded components of data exchange solutions • <u>effective</u> generation of components of a data exchange solution • <u>reasoned</u> evaluation of impacts, coded components and the digital data exchange solution against effective criteria to make effective refinements of code and considered recommendations justified by data. 	5–6
<ul style="list-style-type: none"> • <u>simple</u> synthesis of information or ideas to determine data, algorithms and coded components of data exchange solutions • <u>adequate</u> generation of components of the data exchange solution • <u>feasible</u> evaluation of impacts, coded components and a digital data exchange solution against some criteria to make <u>adequate</u> refinements of code and <u>fundamental</u> recommendations justified by data. 	3–4
<ul style="list-style-type: none"> • <u>unclear</u> combinations of information or ideas to determine data, algorithms or coded components of data exchange solutions • <u>superficial</u> evaluation of impacts, or the digital data exchange solution, against criteria. 	1–2
<ul style="list-style-type: none"> • does not satisfy any of the descriptors above. 	0

Criterion: Communicating

Assessment objective

8. make decisions about and use mode-appropriate features, written language and conventions for a technical audience

The student work has the following characteristics:	Marks
<ul style="list-style-type: none"> • <u>discerning</u> decision-making about, and <u>fluent</u> use of <ul style="list-style-type: none"> – written and visual features to communicate about a solution – language for a technical audience – grammatically accurate language structures – referencing and project conventions. 	3–4
<ul style="list-style-type: none"> • <u>variable</u> decision-making about, and <u>inconsistent</u> use of <ul style="list-style-type: none"> – written and visual features – suitable language – grammar and language structures – referencing or project conventions. 	1–2
<ul style="list-style-type: none"> • does not satisfy any of the descriptors above. 	0