

Assessment Schedule – 2021

Digital Technologies: Demonstrate understanding of compression coding for a chosen media type (91887)

Assessment Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<p><i>Demonstrating understanding of compression coding for a chosen media type involves:</i></p> <ul style="list-style-type: none"> • identifying reasons for compressing files • showing how the chosen media type can be represented using bits in an uncompressed form • showing how a lossless compression method works • giving examples of when lossy compression is appropriate. 	<p><i>Demonstrating in-depth understanding of compression coding for a chosen media type involves:</i></p> <ul style="list-style-type: none"> • exploring the relationship between lossy compression and human perception of the medium • evaluating lossy and lossless compression methods. 	<p><i>Demonstrating comprehensive understanding of compression coding for a chosen media type involves:</i></p> <ul style="list-style-type: none"> • evaluating how real-world applications are enabled by relevant representations including lossy, lossless, compressed or uncompressed.

Cut Scores

Not Achieved	Achievement	Achievement with Merit	Achievement with Excellence
0 – 2	3 – 4	5 – 6	7 – 8

Evidence

N1	N2	A3	A4	M5	M6	E7	E8
<p>Makes relevant comments, but the response is incomplete.</p>	<p>Makes relevant comments in some parts of the response.</p>	<p>Explains, for the chosen media type:</p> <ul style="list-style-type: none"> • why there might be a requirement to compress files of this type • how files of this type can be represented using bits in an uncompressed form • how a lossless compression method works for files of this type. <p>Gives examples of the appropriate use of lossy compression.</p> <p>Some aspects of the response may be partial or weak.</p>	<p>Explains, for the chosen media type:</p> <ul style="list-style-type: none"> • why there might be a requirement to compress files of this type • how files of this type can be represented using bits in an uncompressed form • how a lossless compression method works for files of this type. <p>Gives examples of the appropriate use of lossy compression.</p>	<p>Explains, for the chosen media type:</p> <ul style="list-style-type: none"> • a benefit of using a lossless compression method • how lossy file compression can affect an end user's perception of the quality of the output • a benefit of using a lossy compression method. <p>Some aspects of the response may be partial or weak.</p>	<p>Explains, for the chosen media type:</p> <ul style="list-style-type: none"> • a benefit of using a lossless compression method • how lossy file compression can affect an end user's perception of the quality of the output • a benefit of using a lossy compression method. 	<p>Explains, with reference to the output requirements specified in the scenario:</p> <ul style="list-style-type: none"> • a case in which it would be better to use a lossless compression method, and why this would be better than another method • a case in which it would be better to use a lossy compression method, and why this would be better than another method • a case in which it would be better to use an uncompressed format, and why this would be better than a lossy method. <p>Some aspects of the response may be partial or weak.</p>	<p>Explains, with reference to the output requirements specified in the scenario:</p> <ul style="list-style-type: none"> • a case in which it would be better to use a lossless compression method, and why this would be better than another method • a case in which it would be better to use a lossy compression method, and why this would be better than another method • a case in which it would be better to use an uncompressed format, and why this would be better than a lossy method.

N0 = No response; no relevant evidence.