


Examination panel	Quarry managers		
Examination paper	PART B (Application of legislation & technical knowledge)	Examination date	N/A
Question prepared by	Name: Panel convenor Date: 6 September 2021	Question reviewed by	Name: Andrew Palmer Date: 14 September 2021
Competency being assessed	Operational decision making and initiative	Question type	Short Answer

BENCHMARK(S)	PART OF FUNCTION DESCRIPTION	QUESTION	MARKING CRITERIA	REFERENCE MATERIAL
Referring to evidence and objective information when making decisions and supporting the implementation of appropriate standards and procedures	Source and apply current knowledge in the management of WHS risks that are relevant to mining operations	<p>You are the Quarry Manager of a site that is mining above known old underground workings.</p> <p>There is a history of potential intersections with these workings (photo attached).</p> <p>List eight (8) controls that you would implement to manage mining in and around these workings? (8 marks)</p>	<p>Combination of the following points: (if the candidate is able to list 6 items they will be deemed competent)</p> <ol style="list-style-type: none"> <li>1) Conduct risk assessment with cross section of team</li> <li>2) Include controls in PHMP for Ground or strata failure</li> <li>3) Ensure Standard Operating Procedures (SOP) are developed and well understood</li> <li>4) Consider elimination (sterilise) if effective controls cannot be implemented</li> </ol>	 <p><b>Note:</b> blueprinting changes for written exams means moving from 'pass marks' to 'competent' or 'not competent' marking from 2022/2023 financial year. For this sample question, for their answer to be deemed competent the candidate</p>

			<ol style="list-style-type: none"> <li>5) Obtain historical records of known workings (Mines Dept or mine holder)</li> <li>6) Establish survey control (overall pit, areas of concern, individual bench control)</li> <li>7) Include old workings onto survey plan</li> <li>8) Pre-coverage drilling to locate voids</li> <li>9) Mark out of identified areas on the ground</li> <li>10) Ground penetrating radio techniques (or equivalent)</li> <li>11) Review mining method to reduce expose (bench height, machine selection, direction of mining)</li> <li>12) Implement inspection controls</li> <li>13) Train operators and supervisors</li> <li>14) Arrange for spotters</li> </ol>	<p>would need to need to list 6 of the identified controls.</p>
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