



The Institute of Quarrying
Australia

Quarry Products – Technical Training	
Item	Details
Introduction	<p>This training package is aimed at providing a comprehensive series of modules which describe all the different quarry materials which are manufactured and supplied to different segments of the market; i.e. Aggregates for concrete, road sealing and asphalt; road bases, stabilised products, etc.</p> <p>The relevant Australian Standard requirements are discussed and developed to give existing quarry professionals a more in-depth understanding of how the requirements affect their operations and particularly the quarry products they produce.</p> <p>It builds on the Introduction to Quarry Products Training Course which established the concepts of</p> <ol style="list-style-type: none"> 1. <i>What is a quarry?</i> 2. <i>What products are there?</i> 3. <i>What are the requirements of these products? and</i> 4. <i>Why are these requirements important?</i> <p>Special sections are included for Manufactured sands, Alkali Aggregate Reaction, Source properties and testing like Wet / Dry etc.</p>
Duration	2 or 3 or 4 days depending on modules required
Potential Participants	<p>Quarry Production Personnel, including:</p> <ul style="list-style-type: none"> • Face loading equipment operators • Processing plant operators • Blending plant operators • Sales loader operators • Pit operations supervisors • Processing supervisors • Processing plant managers • Processing plant developers <p>Consulting Engineers specifying quarry products.</p> <p>Quarry Managers</p>



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Topics Covered

- Identify quarry crushing, screening and processing plants and have an understanding of their operation and resulting products.
- Recognise the constituents of concrete and the effects aggregates have on concrete performance
- Identify various sealing aggregates and how they are applied as road surface materials.
- Identify the role of aggregates within different asphalt mixes.
- Recognise the properties of Armourstone, Gabion Mattress and Rail Ballast.
- List Properties of Roadbases including stabilised products. Identify the role of the supplier, placing contractor and specifier
- Demonstrate appropriate testing of a range of aggregates
- Identify the key aspects of Manufactured Sands and implement these back into their workplace where relevant.
- Recognise the condition called AAR, how it is tested and specified.
- Identify key aspects of quarry source investigation, development and testing
- Recognise the key stages within a given quarry operation including their specific processes.
- Read and identify relevant tests regarding each quarry market segment in relation to Australian Standard AS2758 series.
- Complete a written quiz consolidating knowledge gained during previous training modules.