

# ABPL90208 Construction Measurement and Estimating

- BIM
  - What is BIM? [#exam](#)
  - BIM-based project delivery Vs Traditional project delivery [#exam](#)
  - What is the future of BIM?
  - Characteristics / Why BIM?
  - Challenges and Barriers to BIM adoption [#exam](#)
  - Who creates and uses BIM and how? [#exam](#)
  - BIM-based estimating Vs Traditional estimating
  - Potential sources of error in BIM estimating and how can they be reduced? [#exam](#)
  - Who creates BIM and how can BIM be used? [#exam](#)
  - How will BIM impact on the way QS work and QS services [#exam](#)
  - 2D Vs 3D Vs 5D estimating [#exam](#)
- Cost Estimating
  - Role of Project Cost Estimating
  - Types of estimates
  - Types of estimates according to design stages
  - Types of estimate according to the method of preparation [#keypoint](#)
  - Estimating approach / steps
- Cost Planning
  - Definition of Cost Planning [#keypoint](#)
  - Definition of Cost Plan [#keypoint](#)
  - Goal of Cost Planning [#keypoint](#)
  - Rationale 根本原因 of Cost Planning & Control
  - Cost planning philosophies
  - Challenges for Cost Planning [#keypoint](#)
  - Conditions for Effective Cost Planning
  - Common factors which may influence cost & How they affect the unit rate estimate [#exam](#)
  - 3 basic elements of unit rates & how they can be estimated and incorporated into a unit rate? [#exam](#)
  - Techniques of estimating during design stages [#keypoint](#)
  - Objectives and Steps in Each Stages
- Principles of Cost Control [#keypoint](#)
  - There must be a frame of reference
  - There must be a method of checking
  - There must be means of remedial action (re-design, change specification, seek alternative solution)