

Faculty of Engineering and Built Environment

Bachelor of Construction Management (Building)

Program Code: 10859



Graduate Profile

Graduates of a Bachelor of Construction Management (Building) program will be able to demonstrate the following attributes:

1. Ability to prepare and review post-contract and claims documentation for building works;
2. Ability to monitor and control costs in construction projects;
3. Ability to monitor and manage changes in legal scope of construction contracts;
4. Ability to assess the monetary change of value arising from changes in construction project scope.
5. Ability to develop and appropriately apply cost estimating principles to various construction works and projects;
6. Ability to conduct and analyze economic and financial feasibility analyses for building projects;
7. Ability to develop and apply life-cycle costing principles to the management of constructed assets;
8. Ability to develop and appropriately apply cost planning principles to various construction works and projects;
9. Ability to apply micro and macro-economic principles to the construction industry
10. Ability to develop knowledge of industrial relations principles, and appropriately apply it in construction project contexts;
11. Ability to develop knowledge of common law, tort, and contract law principles , and appropriately apply it in construction project contexts;
12. Ability to develop knowledge of the principles of occupational health and safety, related legislation and practices, and apply them in a construction project context;
13. Ability to develop knowledge of, and appropriately apply statutory compliance instruments related to the design, construction and use of constructed assets;

14. Ability to develop knowledge of construction claims and disputes processes, and appropriately apply it to various construction project contexts;
15. Ability to prepare and review pre-tender, tender and contract documentation (including Bill of Quantities) for building works;
16. Ability to develop and apply the principles of resource planning and management to plan and manage the construction of buildings within time, cost, and quality constraints;
17. Ability to develop and apply the principles governing the structure and composition of the construction industry, and the function of professionals operating in the architectural, engineering, and construction sector;
18. Ability to apply human resource management principles in managing building projects
19. Ability to develop and apply the principles of procurement mechanism selection to diverse construction/maintenance projects;
20. Ability to prepare property and facilities management plans
21. Ability to evaluate building performance and manage post occupancy of buildings
22. Ability to develop and apply principles of quality assurance/quality management to construction projects/organisations;
23. Ability to develop and apply sustainable strategic and operational management practices
24. Ability to identify and apply appropriate ICT solutions to technical and managerial contexts;
25. Ability to develop and apply principles of risk management throughout the life-cycle of construction projects;
26. Ability to develop and apply principles of financial management/accounting practices for construction businesses and projects;
27. Ability to conduct maintenance audits and prepare plans
28. Ability to develop and apply communication principles in construction industry and academic contexts, using:
 - oral techniques
 - written techniques
 - graphical techniques
29. Ability to develop and apply effective work strategies, both as an individual and as a team member;
30. Ability to personally develop and thereafter exhibit the attributes and attitudes expected by the profession and society;
31. Ability to recognise and solve problems in a creative manner;
32. Ability to develop and apply principles of reflection to personal performance/evaluating the performance of others;

33. Ability to develop and apply principles of professional and ethical practice
34. Ability to obtain and execute relevant work experience in the construction industry
35. Ability to critically analyze research and other writings relevant to construction and apply research methods to construction issues;
36. Ability to critically evaluate, analyze synthesis in order to identify and apply innovation in the built environment
37. Ability to apply principles of sustainability to the life-cycle of built assets;
38. Ability to develop and apply principles of conservation to cultural heritage
39. Ability to demonstrate the development and contextual application of technical construction knowledge including:
 - materials
 - building systems
 - construction technology
 - plant and equipment
 - construction processes
 - infrastructure and building services
40. Ability to develop and apply the principles associated with the installation, integration, and operation of building services
41. Ability to demonstrate the application of structural principles to buildings
42. Ability to develop and apply principles of construction practices and technology associated with the maintenance, repair, refurbishment and renovation of building works;