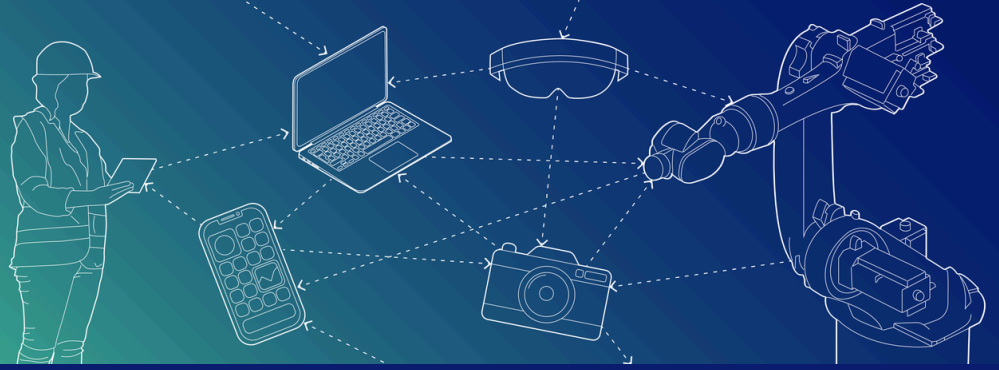




The Arch_Manu Talk Series 51 CPD event questionnaire:

From Architectural Vision to Built Reality: AI, Digital Design and Engineering Collaboration

Delivered On

Wednesday 26 August 2026

AACA Competency Standards [2021 NSCA]

PC35, PC47

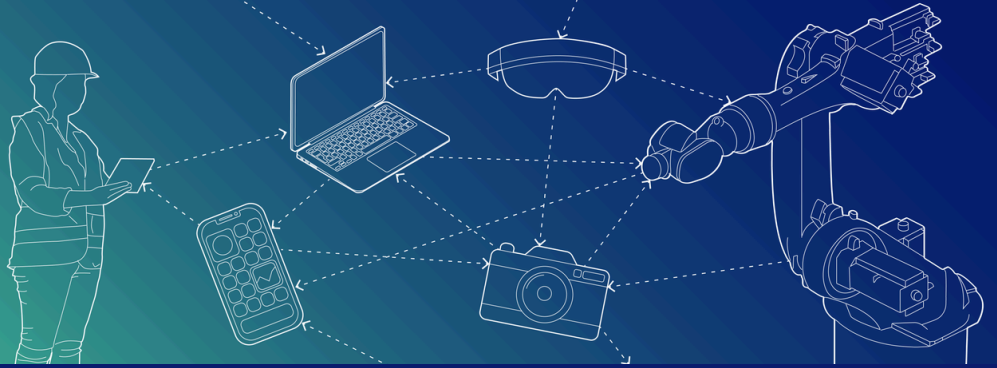
Formal Assessment

Question 1: What is a key advantage of a parametric design approach compared to a conventional structural design workflow?

- A. It eliminates the need for structural analysis
- B. It allows rapid exploration and optimisation of multiple design options
- C. It guarantees the lowest-cost solution
- D. It removes the need for architectural input

Question 2: In the embodied carbon study presented, which alternative structural system was proposed to reduce carbon emissions compared with a conventional reinforced concrete slab?

- A. Prestressed concrete slab
- B. Steel deck composite slab
- C. CLT slab supported by steel/glulam beams
- D. Post-tensioned flat slab e future



Question 3: During concept design, what is the primary benefit of considering structural systems alongside architectural planning?

- A. It allows the structural design to be completed before the architecture
- B. It helps identify opportunities for larger spans, greater spatial flexibility and improved building efficiency
- C. It eliminates the need for coordination between disciplines during detailed design
- D. It guarantees that the project cost will be reduced

Question 4: How can digital tools support collaboration between architects and structural engineers during conceptual design?

- A. By replacing the need for multidisciplinary teams
- B. By allowing sustainability, structural analysis, and geometry to be evaluated together
- C. By focusing only on documentation production
- D. By reducing coordination with fabricators