

QUALITY & COMPLIANCE



THEME GROUP

Project: An Enlightened Clients Guide to Total Project Quality

Introduction – Key point summary;

- Purpose: To identify Project Quality and Compliance best practice and resource guidance for clients operating in various sectors of the built environment.
- To encourage a collaborative, multidisciplinary, integrated, holistic approach to achieving client’s quality aspirations and consider common and transferable best practice between sectors.
- Deliverables: An online guide hosted on the new CESW website; sign-posting resources, templates, toolkits, case studies, other relevant CE groups and projects, legislative requirements, etc, searchable by Client roles/sectors.
- Guidance Framework: Selected Quality related toolkits and frameworks have been reviewed and a ‘6Ps - Total Project Quality’ structure and scope is proposed for further development.

Table 1. Selected Quality related toolkits & frameworks – scope/section headings. Issued: 01/09/2021 Revision: 6 Status: Preliminary – Work in Progress/ Issued for comment.

Quality Management Principles (ISO)	Design Quality Indicators (DQI)	ICW Toolkit Integrated Collaborative Working - Principles	PDRI Project Definition Rating Index	BiQ Quality Tracker Quality Risk Categories	Value Toolkit (In development) Value Profile	BREEAM	Government Soft Landings Also BSRIA, Public Sector versions & GSL P22;	Building a Safer Future (BSF) Charter Champions Framework	An Enlightened Clients Guide to Total Project Quality (Aka 6P’s - Draft structure/scope)
1. Customer focus 2. Leadership 3. People involvement 4. Process approach 5. Systematic approach to management 6. Continual improvement 7. Factual approach to decision making 8. Mutually beneficial supplier relations	Functionality - Use - Access - Space Build Quality - Performance - Engineering - Construction Impact - Character and innovation - Form and materials - Internal environment - Urban and social integration	Vision and Leadership - Needs: purpose of project, goals, objectives - People: Culture to achieve potential - Benefits: Potential success for all - Maintaining the vision: Both journey and destination of project. Culture and values: Beliefs, desires, values - Empowering people: To decide what needs to be done, when, how and by whom. -Share learnings: Best practice developed by all - Open communications: Information for all - Trust, No blame Process tools and commercial - Early involvement - Common processes - Measure performance - Long-term Continuous Improvement	I. BASIS OF PROJECT DECISION A. Business Strategy B. Owner Philosophies C. Project Requirements II. BASIS OF DESIGN D. Site Information E. Building Programming F. Building/ Project Design Parameters G. Equipment III. EXECUTION APPROACH H. Procurement Strategy J. Deliverables K. Project Control L. Project Execution Plan	A Likelihood of Proceeding Early investment in rigorous design process to avoid re-design B Attitude to Maintenance and Longevity Specifying/tendering for low cost or quality & durability C Attitude to Cost Certainty Cost planning - risk of advanced stage design viability problems D Attitude to Programme Certainty Where dates are critical, quality may be secondary E Likelihood of Obtaining Competitive Tenders Early supply chain engagement in design F Attitude to Collaboration risk sharing/problem solving for quality solutions	Natural Air and water quality and biodiversity Social Community – citizens, community enterprise, equality and sourcing Human Safety and security, employment, skills and training, mental and physical wellbeing Manufactured Carbon and GHG, resource use, production, productivity Financial Capital cost, operational cost, revenue, economic benefits	Health and Wellbeing: indoor and external issues (noise, light, air, quality, etc.) Materials: environmental impacts of building materials Transport: transport-related CO2 and location-related factors Water: building consumption and efficiency Waste: construction and operational waste management Pollution: water and air pollution Land Use & Ecology: site and building footprint and ecological value and conservation. Management: management policy, commissioning, site management and procurement	0. Strategy - Identify Business Needs & Performance Targets 1. Brief - Set Objectives & Operational requirements 2. Concept - Test & Model design & Operational Strategy 3. Definition - Check & Confirm Plan Assumptions 4. Design - Refine Design & Construction Approach 5. Build & Commission - Review Operational Aspects/Plan Comm. 6. Handover & Close Out - Verify Commissioning & prepare for Start-Up 7. Monitor & Evaluate: POE Year 1 - Monitor & Evaluate Performance 8. Optimise: POE Year 2 - Optimise & Explain Performance 9. Lessons Learnt: POE Year 3 - Prepare Lessons Learnt	Organisational Culture Significant ways of thinking & doing underpinning a positive Bldg Safety culture Leadership Commitment Set & communicate clear direction, consistent approach, values, ethics, culture. Supply Chain Engagement Lead & manage across entire value chain to mitigate Bldg Safety risks. Constn Product Mangmnt Safety & quality of product used across construction lifecycle are fit for purpose Managing Change Amount & pace proactively led & managed, ensure individual & cumulative impact does not adversely affect Bldg Safety Stakeholders Engagement Actively engages residents, employees, etc about Bldg Safety risks & key decisions are visible Assuring Competence Persons, incl employees & contractors, deliver safety critical work during planning, design, Construction & occupation Audit & Review Management at all levels ensure Bldg Safety risks	1. PEOPLE - Leadership, Culture - Skills, Competence - Collaborative behaviour - Communications: Personal/Project Org. - Knowledge sharing/Feedforward 2. PURPOSE: Strategic definition - Business case, Client strategic needs - Outcomes, scope, Stakeholders - Critical to success criteria, KPIs 3 PROCUREMENT: Strategic approach - Longer term contracting models and frameworks - Win-win contracting arrangements - Equitable risk allocation 4. PRODUCT DESIGN: Quality defined - Design Brief, Value outcomes - Quality Aspirations & attributes - Design Quality Indicators (DQI) - Critical to Quality criteria - Asset/Building Safety - Regulatory compliance - Standards and derogations - Operational criteria/outcomes - Capex/Opex design criteria - Past experience feedback 5. PROCESS EXECUTION - Preparation & Briefing - Project Execution - Procurement: Supply chain - Project Controls: Design, Procure, Build - Deliverables - Aftercare - Client focus: Satisfaction monitoring 6. PERFORMANCE EVALUATION - Client Operational Outcomes, KPIs

							identified, controlled & A&R used to support Continuous Improvement.	<ul style="list-style-type: none"> - POE/Asset/Building Performance Evaluation (BPE); - User & Stakeholder satisfaction - Build Quality - Project Team Performance (360) - Lessons Learnt/Feedback/Case studies
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Table 1a Quality based Strategies & Delivery

Quality based strategies:	PEOPLE <ul style="list-style-type: none"> • Project Quality Leadership • Project organisational culture • Behaviours • Competence 	PURPOSE <ul style="list-style-type: none"> • Strategic Outcomes • Value profile & priorities, KPIs • Strategic Quality aspirations 	PROCUREMENT <ul style="list-style-type: none"> • Longer term contracting models & frameworks • Win-win contracting arrangements • Equitable Risk allocation <p>(Professional services, Main contract & supply chain)</p>
	Quality in Delivery:	PRODUCT: DESIGN <ul style="list-style-type: none"> • Design Brief • Project outcome & value statements • Design quality attributes 	PROCESS <ul style="list-style-type: none"> • Project Management • Detailed Procurement • Design development • Construction • Independent oversight • Aftercare • Operation & Maintenance