



welcome to
BEYOND SMART CITIES



PRE- AND POST-OCCUPANCY PHASE COMMISSIONING PROCESS

ONLINE PROFESSIONAL COURSES LED BY THE
WORLD'S TOP SPECIALISTS

ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C), GSAS CGP, GCP, ISO 14001

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MODULE 8

Summary & Resources

KRISHNAJI PAWAR - CEO & FOUNDER

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Learning Objectives

- Introduction
- Pre- and post-occupancy CxA Objectives
- Pre- and post-occupancy CxA Team
- Pre- and post-occupancy CxA Activities
- Commissioning Meetings
- Operations and Maintenance (O&M)
- Systems Manual
- Final Commissioning Report
- Seasonal or Delayed Tests and Training
- Warranty Activities
- Acceptance Phase Overview
- Optimisation and Adjustment
- Monitoring ,Ongoing CxA & Recommissioning

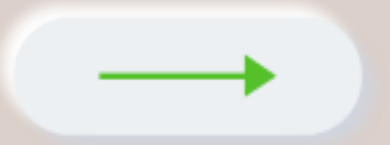
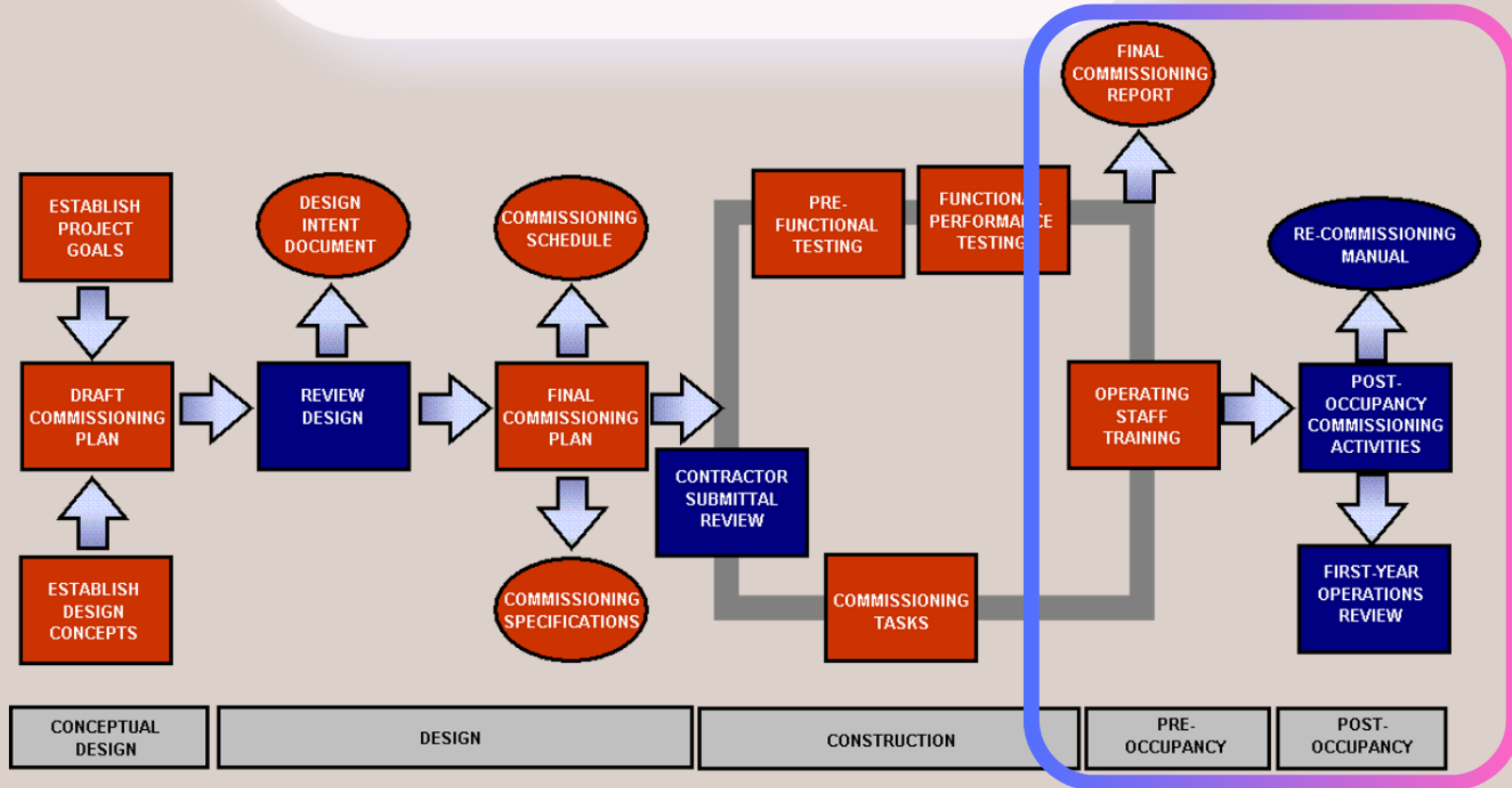


SUMMARY

- The construction documents identify a milestone referred to as "substantial completion."
- Before a contractor can declare substantial completion, the construction specifications must clearly outline all requirements that must be met.
- As discussed in the preceding lecture, substantial completion requirements include the status of commissioning requirements' completion.
- Commissioning seeks to achieve Nevertheless, there are frequently valid reasons why certain commissioning tasks cannot be completed until after the facility has been occupied.
- These reasons are predictable during the design phases, can be identified in the specifications, and lead to the specification of post-substantial-completion deferred commissioning tests and activities.
- Construction documents call for "substantial completion."
- In this construction tradition, the contractor completes most of the construction work, at least to the point where the owner can begin to take beneficial occupancy.
- The remaining work includes punch list issues, landscaping, and other closeout activities



Phases of Commissioning



WELCOME TO BEYOND SMART CITIES

Beyond Smart Cities is the world's 1st Green Technology Marketplace, connecting millions of Sustainability Specialists, Green Building Specialists, Energy Specialists, Commissioning Specialists, Environment Specialists, Health & Safety Specialists, Fire Safety Specialists, Climate Change Specialists & Green Products/Technology Manufacturers with independent talent around the globe.

Our mission is to build and support a global community of experts with the highest professional standards in sustainability, green building, energy, commissioning, environment, health & safety, fire safety, climate change, GHG accounting, carbon auditing, and GHG emissions management.



BRIEF ABOUT ME

Krishnaji PAWAR

CEO & FOUNDER

Krishnaji Pawar is founder and CEO of Beyond Smart Cities. Before being named CEO in January 2020, Krishnaji held leadership roles at Beyond Smart Cities in both Sustainability ,Energy & Environmental Consultancy.

Specialized in developing sustainable design strategies for Green Building Certification Systems (LEED, GSAS, etc.), Energy & Water Conservation, Commissioning, Environmental Impact Assessment & Environmental Management Systems.

Currently responsible for 3,787 million square feet Green Building /Energy modeling Consulting since January 2008 in UAE, India and Qatar.



RESOURCES

- PECl: Portland Energy Conservation, Inc. What can commissioning do for your building? Portland, Oregon: PacifiCorp, no date.
- Piette, M., and B. Nordman "Energy and Cost Savings from Commissioning Efficiency Measures in 16 Buildings." Proceedings of the Third National Conference on Building Commissioning Milwaukee,
- Trueman, Commissioning: An Owner's Approach for Effective Operations." American Society of Heating, Refrigeration, and Air Conditioning Engineers Transactions, vol. 95, part 1, Atlanta, Georgia, 1989
- ASHRAE Standard 202-2018: Commissioning Process for Buildings and Systems
ASHRAE Guideline 0.2-2015:
- Commissioning Process for Existing Building Systems and Assemblies
- ASHRAE Guideline 1.2-2019: Technical Requirements for the Commissioning Process for Existing HVAC&R Systems
- and Assemblies
- ASHRAE/BCxA Commissioning Stakeholders Guide (including QBS section





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THANK YOU

