

BEYOND

SMART CITIES

CERTIFIED BUILDING COMMISSIONING

PROFESSIONAL - CBCP EXAM PREP

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP

COMMISSIONING SPECIALIST CURRICULUM

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GREEN BUILDING

COMMISSIONING

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COMMISSIONING SOFTWARE TOOLS

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LEARNING OBJECTIVES

Commissioning Software

Commissioning in use

Benefits

Application of Commissioning Software tools

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COMMISSIONING SOFTWARE

☑ Building commissioning software is an adaptable, cloud-based platform that enables commissioning for building construction projects across numerous industries. Deployment occurs during all phases of buildings, plants, and facilities to ensure that all systems are operational and in working order.

☑ Building commissioning software is a game-changer in the construction industry. It has become a critical strategic asset for those who have already transitioned to its live, real-time data and communications (among other serious advantages).

☑ But what industries can use this software for their construction projects? After all, construction project types can be highly differentiated across sectors like petrochemicals, pharmaceutical labs, energy, corporate offices, and oil and gas, right?



COMMISSIONING SOFTWARE

☑ Those project types are different. Commissioning software has come a long way since its initial foray into the building construction industry. If you've checked out the CX software and felt it was too rigid or not flexible enough, then you wouldn't be wrong. Commissioning software has overcome numerous challenges, like being constrained to a narrow set of project types or only offering a few features that didn't make the investment seem worthwhile.

☑ However, this is no longer the case. Admittedly, some platforms, like Bluerithm, have exceeded expectations because of their continual development cycles. These software companies work with their customers as partners and respond to their needs. Now, you can enjoy a full suite of features and benefits that let you manage every aspect of the commissioning process through the software's platform.



COMMISSIONING SOFTWARE

☑ Building commissioning software turns the process of testing and optimizing equipment and building systems into a digital one. It takes the place of paper- and computer-based spreadsheet-based methods and is designed to streamline workflows and introduce efficiencies lacking in these traditional methods.

☑ Part of the traditional way of doing things is to start commissioning when the project is almost done. But really, the best time is at the start of the project, so that it can be done at the same time as quality assurance. And building commissioning software makes this possible. Where this can have the most impact is in large-scale, complex structures and their sustainability and energy-efficiency requirements, which this software is uniquely capable of handling. So what does this software do that ends up playing such a vital role in these kinds of projects?





You can find commissioning software being used in the following industries:

- ✓ Industrial Manufacturing Plants
- ✓ Data Centers
- ✓ LEED commissioning projects
- ✓ Commercial Facilities
- ✓ Pharmaceutical Labs and Facilities
- ✓ Petrochemical and chemical plants
- ✓ Energy and Power Plants
- ✓ Biotechnology Facilities
- ✓ And general construction



BENEFITS OF COMMISSIONING SOFTWARE

- ✓ A cloud-based system facilitates global teams (engineers, completions admins, managers, inspectors, etc.).
- ✓ Progression dependencies ensure inspections and milestones are completed in the right order.
- ✓ Prerequisites prevent CERT issues if critical ITRs or punchlist items are outstanding.
- ✓ Auto-populate and quickly update the right tag data in ITRs in seconds.
- ✓ Monitor progress and status by system, sub-system, group, tag, etc.
- ✓ Integrates with ProjecTools Document Manager, allowing inspectors to quickly find engineering and technical documents.
- ✓ OCR technology automates the logging of completed check sheets back to the system.



CENTRALIZES ALL COMMISSIONING DOCUMENTATION

- ✓ Think of all the systems that go into one of your capital projects, each one requiring installation verification and functionality testing for accuracy, quality, and efficiency.
- ✓ Cloud-based commissioning software centralizes and organizes in a single repository all the associated commissioning documentation for each of them: tests, photographs, videos, inspection checklists, collaboration notes, compliance verification, etc.
- ✓ Some solutions may offer online form builders, as well as built-in checklists and templates for inspection, testing, and quality control for systems ranging from electrical to HVAC to structural.
- ✓ Locating everything in what is essentially one virtual file cabinet ensures everyone from architects to contractors to craftspeople to post-build operations teams knows where to go for the documents they need, even months and years later.

CAPTURES AND TRACKS ISSUE DETECTION AND RESOLUTION PROGRESS IN REAL TIME

- ☑ Building commissioning software that can be used on a mobile device lets you keep track of it and fix it right away.
- ☑ Through an app on your internet-connected mobile device, any quality, safety, or functionality issues can be logged, photographed, and described as they're found.
- ☑ From there, the contractor can assign each one to the appropriate subcontractor for immediate repair or resolution.
- ☑ After the work is finished, the subcontractor can then use the app to mark it as complete and provide photographic and testing evidence.
- ☑ There's a long-term benefit that goes beyond this real-time resolution: you wind up with a running log of these issues and their repairs that can be leveraged for troubleshooting any problems down the road, even after handoff.



CUTS THE DATA ENTRY ERROR RATE AND INCREASES ACCURACY

- ☑ When you use a mobile app to access commissioning software, you can enter data right from the job site.
- ☑ The result? More accurate, timely data Form fields within the software help you capture the required information using only the allowable data entry values and ensure no field is skipped. This completely bypasses the issues and errors often experienced using traditional methods — indecipherable details scribbled in haste, values transferred incorrectly from paper to spreadsheet, overlooked information that doesn't get entered at all, or data that's entered late.



INCREASES CONFIDENCE IN COMMISSIONING

- ☑ These capabilities can inspire a higher degree of confidence in your commissioning process.
- ☑ It's a confidence that comes from having taken a proactive approach to it right from the beginning, being certain that all deficiencies have been identified and resolved and that everything has been tested and quality-checked along the way.
- ☑ Ultimately, building commissioning software is meant to shorten the commissioning time and streamline the process of outfitting and testing internal systems and equipment so they function optimally throughout a structure's life cycle — with fewer repairs, more energy savings, and more proactive maintenance.




