



The American
Institute
of Architects

Academy of
Architecture for Health

an AIA Knowledge Community

Planning, Design, and Construction of Health Care Facilities



Addressing Joint Commission and
JCI Standards and Other Considerations—
from Planning to Commissioning

4th edition

Foreword by Tushar Gupta, FAIA

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© The Joint Commission. First Edition 2005. Third Edition 2015. Revised Third Edition 2017. Fourth Edition 2019.

Published by Joint Commission Resources
Oak Brook, Illinois 60523 USA
<https://www.jcrinc.com/>

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ISBN (print): 978-1-63585-111-3

ISBN (e-book): 978-1-63585-112-0

Printed in the USA

For more information about The Joint Commission, please visit <https://www.jointcommission.org>

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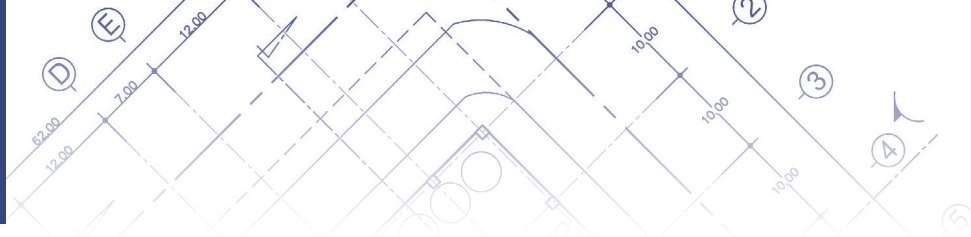
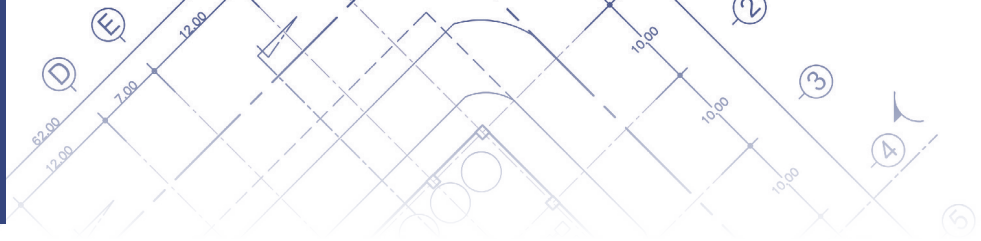


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Foreword

Nearly five years ago, the American Institute of Architects—Academy of Architecture for Health (AIA/AAH) first partnered with The Joint Commission and Joint Commission Resources (JCR) to copublish this handbook (then in its third edition), which previously had been published by The Joint Commission and JCR alone. The complementary missions of our organizations made for a natural collaboration. The AIA/AAH, The Joint Commission, and JCR are deeply committed to improving the quality of health care and recognize the critical role of design in achieving their goals.

This updated handbook introduces not only ongoing changes in the physical design of health care environments but also the evolution of the design and construction process. We believe that the updated edition will be a valuable tool for everyone engaged in or touched by the health care architectural profession—experienced practitioners, emerging professionals, and the larger architecture, engineering, and construction (AEC) community.

AIA/AAH Updates to the New Edition

Chapter 1: Planning

Updates to the strategic planning and master planning sections focus on the importance of establishing a vision and goals. The chapter also places new emphasis on the need for data and research investigation. In addition, the chapter includes a more comprehensive discussion of the selection of the project team members based on the timing of design process, the contracting method, and the bidding process. Additional design and code considerations are addressed in the chapter compared to previous editions of the book.

Chapter 2: Design

This chapter now gives more attention to the schematic design (SD) and construction administration (CA) processes. A new “Responsible Design” feature addresses research,

resiliency, and patient-centered care. Other highlighted topics include sustainability, technology, reliability, security, and life safety. Infection prevention and control measures are also addressed more thoroughly in the fourth edition, as are technical departments such as laboratories, hybrid operating rooms (ORs), and pharmacies. Updates on mechanical, electrical, and plumbing (MEP) considerations, modular construction, and facility design in developing countries are included in the chapter as well.

Chapters 3–5: Construction, Commissioning, and Occupancy and Postoccupancy

Compared to its counterpart in the previous edition, Chapter 3 (“Construction”) gives additional emphasis to the preconstruction risk assessment (PCRA), the infection control risk assessment (ICRA), and interim life safety measures (ILSMs). Chapter 4 (“Commissioning”) now focuses on commissioning throughout the entire planning, design, construction, and occupancy process, rather than as a distinct phase. Moreover, the new Chapter 5 (“Occupancy and Postoccupancy”) has been separated from the “Commissioning” chapter; this chapter addresses the period after the project is handed over to the health care organization and covers simulations, staff training, and clinical operations commissioning.

Furthering the AIA/AAH’s Goals

The publication of the fourth edition of *Planning, Design, and Construction of Health Care Facilities* is an important contribution to the larger goals of the AIA/AAH. Education anchors our mission. We continually seek to deliver on our commitment to design professionals, builders, and facilities managers and directors in the health care field by providing a range of learning opportunities for our members and the profession. Further, we recognize that the future will soon be in the hands and minds of the next generation—it is critical

that we develop the tools and training today that will enable them to shape tomorrow's health care environments.

Special Thanks

A special thanks goes to the AAH editorial committee for its help and leadership in working with JCR on this edition of the book, including the following individuals:

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