

National Institute of Building Sciences

Provider Number: G168

"Managing Assets Starts With A Comprehensive Master Plan"

1-TU-3C-1

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Course Description

With over 5,000 hospitals, 400+ systems and numerous ambulatory care centers around the Change The Change will revise the Change of the Change

In addition, each building and the pitch can appropriate building a regularly scheduled MP product to mange the assets, determine the most appropriate buildetary allocations and methods for accessing the ROI and VALUE of the investments (time, energy, money). This MP should include quantifiable metrics, project pure tail in a half is and data-based narratives to quantify what, where, when and why"? In the FUTURE, the ideal MP will be combined with a FUNCTIONAL PROGRAM, PROCESS Inprocement Harrative and FACILITY MANAGEMENT (FM) PROTOCOLS. Without these linkages was king in halmous, the resulting plan will fall short of the competent business efforts.

A finely orchestrated STRATEGY in synch with the MP and the FM efforts will reduce waste. In its interest of the late, in Aeronal she if its layer system. No, not departmental and service leaders on each site and within the delivery system. No, not everyone pillagin per of their pojets but harped the Carrier system. The system of the SP + MP + FM and technology enhancers work effectively when understood and communicated clearly to the C-Suite and other responsible partners.



Learning Objectives

At the end of the this course, participants will be able to:

- 1. Understand the **ASSETS** we refer to in a SYSTEM?
- 2. How the SP + MP + IFM Process works and What Are Some Anomalies to Take Into Consideration? Steps in SP, MP and FM will be discussed and compared. Meaningful Use to INTEROPERABILITY.
- Compare the POTENTIAL WAYS to INVOLVE the users to gain input and build consensus; We'll discuss Alternative
 Opportunities and Situations with this group of presenters (Martin, Dillinger and Easter).
- 4. Lessons Learned From **Recent Experiences** and **Benchmarks** Include the Following;
 - a. Director of Two Cancer Centers
 - b. Planner for A Surgical and Women's Health Program
 - c. Programmer for A Rural CAH Program
 - d. Member of ACHE and Studying for Fellowship





TABLE OF CONTENTS

- Meet the Session Speakers, See the Presentation Topics
- · Claim Your Credits
- Last Opportunity to
 Save
- Conference Sponsors
 and Exhibitors

What, When, Where

Building Innovation 2019 Conference & Expo

January 7-10
Mandarin Oriental
Washington, DC
1330 Maryland Ave., SW
Washington, DC 20024

Dates to Know

Online Registration

December 31, 2018

Stay Up to Date

Meet the Session Speakers, See the Presentation Topics





Thank You!



Nebraska Society of Healthcare Engineers Annual Fall Meeting

Thoughts Shared With YOU From A Year of **Transition & Change** (ICAHN, Planetree, CMS, Consumers, Providers and Third Party Payors)







"Building on the Planetree Base of Success"

October 8, 2018
Annual Meeting
Boston, Massachusetts







The Illinois Critical Access Hospital Network 15th Annual Conference

Honoring the Past: Celebrating the Future

Illinois Critical Access Hospital Network October 29, 1:00 PM - October 30, 3:30 PM







Assets Within A Site/Campus

- Why Do We Need A SITUATION ASSESSMENT and VISION, MISSION, Values, Goals and Objectives
- Discuss the FACT GATHERING Process:
 - 13 Cloud Based Items
 - Director Perspectives
 - Engineering Leadership
- Identify DATA COLLECTION Methods (QA Style)
- What Are Key Planning Units (KPU)
- What Are MARKET Factors and Population Health Factors and Value of the Community Health Needs Assessment (CHNA)



Assets Within A System

- A SYSTEM Is A 50,000+ Foot Perspective:
 - Regional Portals of Entry and Access
 - Regional Demographics and Trends
 - Regional Barriers and Socio-economic Factors
 - Balance and Equity Factors
 - Arteries, Pathways and Transportation
 - Areawide Perspective and Vision Based on Regional and Economic Plan (Yes/No/Maybe)
 - Business and Reimbursement Factors
 - Transformation Factors (Small Rural and Multi-Hospital Systems)



SP + MP + FM and Anomalies

- The Optimum SP Should...
- The MP and Functional Program Should...
- The FM and BIM Modelling Would Ideally:
 - Use of Accurate Spatial Data (Existing by Dept)
 - Build on Infrastructure Building by Building
 - TJC Equivalent Life/Safety/Hazards and Acts of God
 - Wayfinding, Finishes and Interior Design (Perception and Branding)
 - Medical Equipment (I, II, III, Other)
 - Systems (IT, Phone, Telecom)
 - Low Voltage Systems
 - FFE and Built In Items
 - Environmental/Security and Safety
 - Master Planning and Functional Program (Maintaining Consistency)
 - Data Mining and Assembly of Relevant Metrics
 - Real Estate/Property Management
 - Site Optimization and Strategic LRP



The Added Value Of A White Paper Conversation

ACHA Edited and Approved Submission

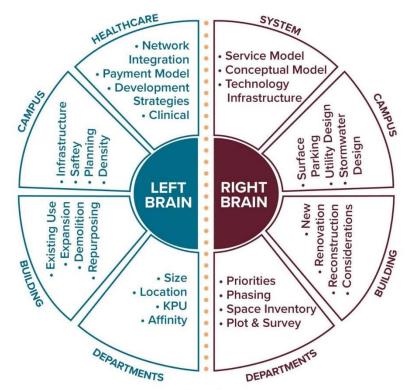


A Comprehensive Perspective

(White Paper With ACHA Research 2018)

FOCUS/CRITERIA

- Mission
- Vision
- Access
- Growth
- Consolidation
- Expansion



RESOURCES/STAKEHOLDERS

- Board
- Steering
 Committee
- Departmental Directors
- Departmental Managers
- Planner
- Infrastructure Engineering
- Statistician
- Wayfinding Consultant
- Facilities
 Manager

Problem Seeking/Analysis



Problem Solving/Synthesis

Credits to HFR Design, Inc and CRS/CRSS/HOK – "**Problem Seeking**" by Pena and Focke



A Comprehensive Perspective



"Failing to Plan Effectively is Planning to Fail"

Credits to HFR Design, Inc and Ehc



A Comprehensive Perspective

(White Paper With ACHA Research 2018)

TIER ONE SERVICES - STRATEGIC PLANNING

STEP I

STEP II

STEP III

STEP IV

STEP V

STEP VI

STEP VII

STEP VIII

DEMOGRAPHIC MARKET ANALYSIS

STRATEGIC PLAN ORGANIZATIONAL PLANNING

SERVICE LINE ANALYSIS

MODEL

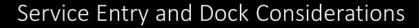
BUDGET DEVELOPMENT STAFFING PLAN BUSINESS PLAN/ PROFORMA

We Believe
The FUTURE Will Require
More **COMPREHENSIVE** Pre-Design
Efforts,
Than Provided in the Past!
(4 Tiers and Parallel Efforts)



Changes from an A/E/C/\$

Perspective (A Integrated Facility Management Program)















The Factors Impacting our Service Delivery Hourly, Daily And Significantly.

Deferred Maintenance and Systems Upgrades
Are A Priority Concern.
Good Job Todd and Team!

(FM Support Required!)

Engineering Analysis

Ву

SSR and Staff (Input by Todd) In the '68 portion of the building the electrical distribution equipment is in very poor fair condition. There are exceptions where renovation has occurred, but most of the panelboards are obsolete Federal Pacific panels. There are a number of fused and/or split bus panels. These panels are beyond their normal expected lifespan. Replacement parts are no longer readily available for the old panels.



In older portions of the building, the existing electrical closet doors are small, and generally cramped. There are some working clearance issues, some of which are rather severe. There are a number of electrical panels located in corridor walls. This is not allowed by current guidelines. When renovating, these panels will have to be moved out of the corridors. In general the existing panels and electric closets will not support renovation.

Numerous Engineering Issues to be confirmed asap:

- ✓ Highest Risk Areas
- ✓ Sustainable
- ✓ Life/Safety
- ✓ Code
- ✓ FGI Guidelines
- ✓ Budget Factors
- ✓ Deferred Maintenance
- ✓ Phasing and Staging of Areas For OB/LDR/Nursery/Surgery



Building Information Management Building Integration Modeling (BIM)

BIM

Dimensions

HFR DESIGN

5D

3D

As-Is Infrastructure

Flow + Function Process Wayfinding Problems Awareness Data 4D

MP Simulation

Phasing
LEAN + Process
JIT
Equipment
FFE
Validation

Program Size

Quantify Estimate

CM + PM
Trades
Value Engineer
Prefabrication
Systems
A/E/O
A/E/S
A/E/Commission



Sustainability

Conceptual
Energy
Eco Tech
LEED Tracking
ROI
Phasing + Staging
+ Change



Facility Mgm Life Cycle

BIM Strategy
As Built
Data +
Pop Health
Maintenance
Lease
BIM 13

Autodesk



Key Spatial Management Data

(Programs to capture and maintain information of all buildings and sites owned by the healthcare system)

- Space Inventory Portfolio of Owned and Leased Buildings and Tenant Spaces
- Space Assignments Business Practice and Standardization
- Space Tabulations Standard Practice and User Classification
- Space Requisition Tabulation in Spread Sheet format for Linkages to BIM (3D) Modeling
- Space Data Management Review, Updates and Approvals
- Space Optimization and Process Change Efficient and Cost Effective Use (Waste Reduction)
- Space Cost/Revenue Audits Costs Associated With Use/Rentals and Leases
- Space Compliance CMS/AHJ/TJC and FGI Guidelines
- Space Accessibility Consulting Partners Project by Project:
 - Site
 - Building
 - Users
 - Floor Plans
 - Data Comparisons
 - Benchmarks
 - Inventory
 - Asset Improvements
 - Asset Re-Alignment and Relocation
 - Asset Budgeting and Phasing (Quick Changes)



What Are The Cloud-Based FACTS and Metrics For The Future?



What Are The Cloud-Based FACTS and Metrics For The Future?

Module 3 - Life/Safety Systems - BIM 4D

- Fire Sprinkler Zones and Aligned Policies
- Smoke Zones and Compartmentalization
- Fire Compartmentation Zones
- Building Construction Classification Zones
- USP and CMS Compliance Factors and Zones of Risk

Module 4 – Interior Design Systems - BIM 4D

- Ceiling Finish Types/Systems and Heights
- Floor and Wall Finish Types
- Interior Finish Chronology Zones (Time Frames and
- Signage and Wayfinding Interface and Chronology

Module 5 - Medical Equipment - BIM 4D

- Major Fixed Medical Equipment
- Major/Minor Moveable Equipment

Module 6 - IT/Data Systems and Telephone - BIM 4D

- Desktop Computers
- Servers
- Phone System (With Vendor)
- Telecom (With Vendor)

"Statement Of Conditions"

"Early Feedback

And Concept

Refinement"

"Areas of
Planning
With The
Most
Challenges
Why & When"



What Are The Cloud-Based FACTS and Metrics For The Future?

Mixture of MP, Design and Operations in Partnership With Change



What Are The Cloud-Based **FACTS and Metrics For The Future?**

odule 11 – Data Mining and Assembly of Relevant Metrics - BIM 5D

- **HCAAP Scores**
- Patient Safety
- Risk Management
- Operational Efficiency
- Custor Quality and Need Complex Complex and Need
- Maintenance Optimization and Waste Reduction
- Predictive and Beentivchimarks agement

Module 12 - Real Estate/Property Management - BIM 5D

- Proje Systems Have Lots
- Space Quality Management Amenities and Deficiencies
- Of Investment Property,

- Module 13 Site Optimication BIM-5D
 Parking an Coward Buildings
 Access/Egress (Fire and Ambulance, Service and Gerbal P

 - **Expansion and Construction Phasing**
 - Height and Zoning by AHJ and Community Ordinances
 - Setbacks/Fasements/Storm Retention and Detention
 - **Energy and Landscape Standards**

Signage and Wayfinding



Examples of A Successful Process

Discussion of Cancer Center Project Within A Major System:

- Transition Planning (TP)
- Staffing and Orientation
- Process Change
- Architect/Engineer and Owner Factors:
 - Hire Smart
 - Experience
 - Comprehensive
 - Smart Tools and Techniques
 - Responsive



Examples of A Successful Process

Discussion of A **Master Plan** (MP) Within a **Hospital System**:

- Step-By-Step Process
- Lessons Learned
- Building A Base With Benchmarks
- Regional Implications
- Change Within A "Partial Perspective"
- Remember The Soft Costs
- Remember The Infrastructure
- Issues



Examples of A Successful Process

Planetree Implications and Illustration:

- Planetree Focus and Top 10 Factors
- Added Value Attributes of Concept
- How/Why Process Change
- Association Value + Awareness and Training:
 - AIA and ACHA
 - ACHE
 - ASHE
 - -AHA
 - Other

"Cultural and Societal Adaptation To Diverse Perspectives And Needs...Progress"



The 10 Components of the Planetree Model



- 01. Human Interaction
- 02. Architectural Design + Healing
- 03. Nutrition + Diet



- 05. Family, Friends, Social Support
- 06. Spiritual and Emotional Support
- 07. Human Touch
- **08.** Healing Arts and Sensory Factors
- 09. Complementary Therapies
- 10. Healthy Communities (Youth + Aged)





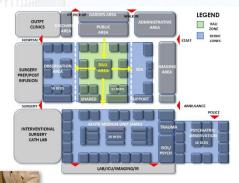


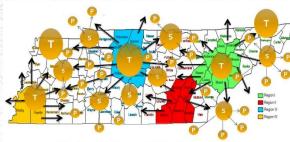


Vision and Change Management

FUNCTIONAL PROGRAMMING

- **DEFINITIONAL CRITERIA**
- •PROGRAM NARRATIVE
- •OPPORTUNITIES/CONSTRAINTS
- BUDGET PARAMETERS
- GOALS/OBJECTIVES/NEEDS
- STRATEGIC INITIATIVES





"Regional and Statewide Healthcare Planning Can Respond to All Human Service Needs When Managed Carefully and Implemented Comprehensively".

Healthcare Should Have No Boundaries to Access.



MASTER ZONING/STACKING/ BLOCKING GENERAL INDUSTRAL CONSTRUCTION/OCCUPANCY OPERATIONAL SVCS ZONE SERVICE FUTURE EXPANSION ZONE GENERAL INDUSTRAL CONSTRUCTION/OCCUPANCY FUTURE EXPANSION ZONE SERVICE FUTURE EXPANSION ZONE FU



Vision and Change Management

Partnership Effort On Finance, Needs and Strategy Very Important!

1. Data Assessment

- Service Area
 Defined
- External and Internal Sources
- Local Studies
- Community
 Inventory

2. Community Input

- Public Health
- Underserved Populations
- Chronic Disease
 Populations
- Others

3. Implementation Strategy

- Summary of Data and Community Input
- Prioritizing
- Implementation Strategy for Each
- What is NOT included and Why?

4. Reporting

- CHNA Summary Report
- Implementation
 Strategy Board
 Approval
- Posted on Website
- 990 Reporting

5. Monitoring

- Measurements
- Annual Data
 Updates
- Prepare for the Next CHNA

What do we know?

What are we hearing?

Must <u>Share</u> The Data To Work Effectively! What are the priorities and how do we implement?

How do we package the final material?

With ACA
On The
Downward
Spiral,
States
Must Take
The
Lead!



The Well-Managed Healthcare Organization

by: Ken White and John Griffith, Eighth Edition (Fellowship for ACHE)

- 1. Foundations of High-Performing Healthcare Organizations
- 2. Cultural Leadership
- 3. Operational Leadership
- 4. Governance
- 5. Foundations of Clinical Performance
- 6. Clinical Staff Organization
- 7. Nursing
- 8. Clinical Support Services
- 9. Population Health
- 10. Knowledge Management
- 11. Human Resources
- 12. Environment of Care
- 13. Financial Management
- 14. Internal Consulting
- 15. Marketing and Strategy

Culture
Population
Environment
Strategy



The Future Continuum

"A Virtual Cradle to Grave"



COMPREHENSIVE HEALTHCARE PLANNING

BIM 3D PROGRAMMING









SUMMI

International Summit & Exhibition on Health Facility Planning, Design,& Construction

PDCSUMMIT.ORG • #PDCSUMMIT



This concludes The American Institute of Architects Continuing Education Systems Course

EASTER Healthcare Consulting The Healthcare Planning Company



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Thank You Questions/Comments

