



LEED IMPLEMENTATION GUIDE

FOR DESIGN PROFESSIONALS

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SUSTAINABILITY SPECIALIST ONLINE CURRICULUM COURSE





IMPLEMENTING AN INTEGRATIVE PROCESS

CHARRETTES & TEAM WORKSHOPS

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LEARNING OBJECTIVES





Incorporate Charrettes and Team Workshops



Benefits of Integrated and Collaborative Charrettes



Plan for the key components for Successful Workshop



How the Integrative Process reflected in different LEED



BUILDING AS AN ORGANISM



SYSTEMS INTEGRATION

Understanding relationships between systems

Not a set of component parts

Holistic, non-linear process

Downsize or eliminate systems

Analysis tools :

- Energy Modeling
- Daylight Modeling
- Materials Analysis & Impacts



BENEFITS AND INTERACTIONS

- ✓ Reduced operational costs
- ✓ Better Indoor air quality
- ✓ Instructional facilities
- ✓ Daylighting
- ✓ Reduced environmental impacts
- ✓ Positive public image
- ✓ Enhanced asset value & increased profits
- ✓ Optimized life cycle performance
- ✓ Enduring facilities
- ✓ potentially no increase in Construction cost
- ✓ Improved occupant performance



INTEGRATED DESIGN PROCESS TOOLS



Collaborative team meeting

Problem solving workshops

Specific Goals and Targets

Tracking tools

Clear communication

Team building activities

Evaluation ,feedback tools and processes

Modeling tools

LEED Checklist



CHARRETTE OR WORKSHOP

An intensive workshop where stakeholders and experts address a particular design issue.

A focused ,multi-day session using a collaborative approach to creating a realistic and achievable design ideas.

What did you get out of participating in a charrette? Why ?

Kick-off ,collaboration ,goal setting ,blue sky ideas,design decisions decision making,synergies ,integration, team building ,clearer direction,problem solving ,trust ,transparency ,higher performance ,creativity



BENEFITS OF STARTING EARLY

✓IDENTIFIES - partners ,available grants , & potential collaborations

✓SETS- clear goals and metrics

✓GENERATES- expectations for outcomes

✓PROVIDES- understanding of various design strategies

✓INITIATES- a multidisciplinary integrated design process with clear and open communication

✓ALLOWS- team members to identify key milestones in schedule and budget issues or opportunities



WHO IS INVOLVED

✓Owner, Occupant Representatives,Architect ,MEP Engineer ,Lighting Designer, General Contractor ,Facility Manager ,Community Members,Landscape Architect ,Sustainability Consultant ,Civil Engineer,Interior Designers , Energy Modeler and Commissioning Authority

✓OUTCOMES:

Define overall project goals

Clarify Sustainability goals of the owner and team

Establish buy in from all stakeholders

Assess building lifecycle

Introduce LEED and set certification goals



PLANNING FOR SUCCESS:

Form a steering committee
Hold planning meetings
Finalize the budget
Location
timeframe
Pre speakers
On-site Logistics

RUNNING A SUCCESSFUL CHARRETTE

Structure for optimal involvement
Small and large group activity
Multiple modes of participation
facilitate successfully

Follow- up

Charrette Report, includes : Research assignments , Milestone Dates, Next action steps, Roles and Responsibilities ,
Sustainability Plan or LEED PLAN
Regular follow-up and check-in calls and meetings

AGENDA ITEMS

Welcome/ introductions
Overview of the project
Goals of the charrette
Presentations to support work to be done
Small working group breakouts
Process and next steps and facilitated
report out
Conclusion and wrap-up

ACTIVITIES

Whole group activities
Breakout group activities
Effective reporting
Wrap-up



TEAM COLLABORATIVE WORKSHOPS

Larger groups with same initial team at each new phase
Smaller meeting to focus on issues
Solutions reported to project team
Still fun and interactive

Why? Build of initial charrette get input
team updates ongoing collaboration ?when

WHO IS INVOLVED

Owner, Occupant Representatives, Architect, MEP Engineer, Lighting Designer,
General Contractor, Facility Manager, Community Members, Landscape
Architect, Sustainability Consultant, Civil Engineer, Interior Designers, Energy
Modeler, Commissioning Authority and Structural Engineer



OUTCOMES

Better informed decision-making for Value Engineering
Process

More complete Construction Documents

Consensus- Entire Team" Buy-In"

Each iteration refines the design with more knowledge
brought to bear

COMPONENTS OF SUCCESS

Clear goals and expectations
Good facilitation and buy-in
Effective reporting
Solid"Next Steps"
Engaging " Follow-Up"




