The Knowledge Leader for Project Success

Owners • Contractors • Academics

CII 10-10 Performance Assessment Program

Webinar

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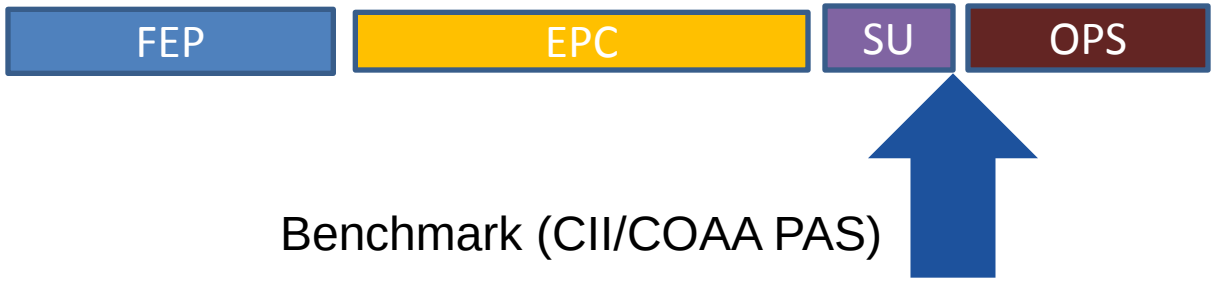
CII's 10-10 Program

- Simple and Important Measures
  - 10 Input Measures (Leading Indicators)
  - 10 Output Measures (Cost, Duration, Capacity, FTE, Quantities)
- Research-Based
  - 75% CII Research (e.g., Project Health Indicators)
  - 15% Capital Projects Research (CII Members)
  - 10% Other Industries (Project Management Measures)
- Launched July 2013 (CII Annual Conference)
- Industrial, Building, and Infrastructure Sectors (late March)
- Phase-Based Surveys
- CII Requested 10 Project-Phase Surveys from Each CII Member by May 4, 2015
- www.10-10program.org

Traditional Benchmarking vs. 10-10 Performance Assessment Program

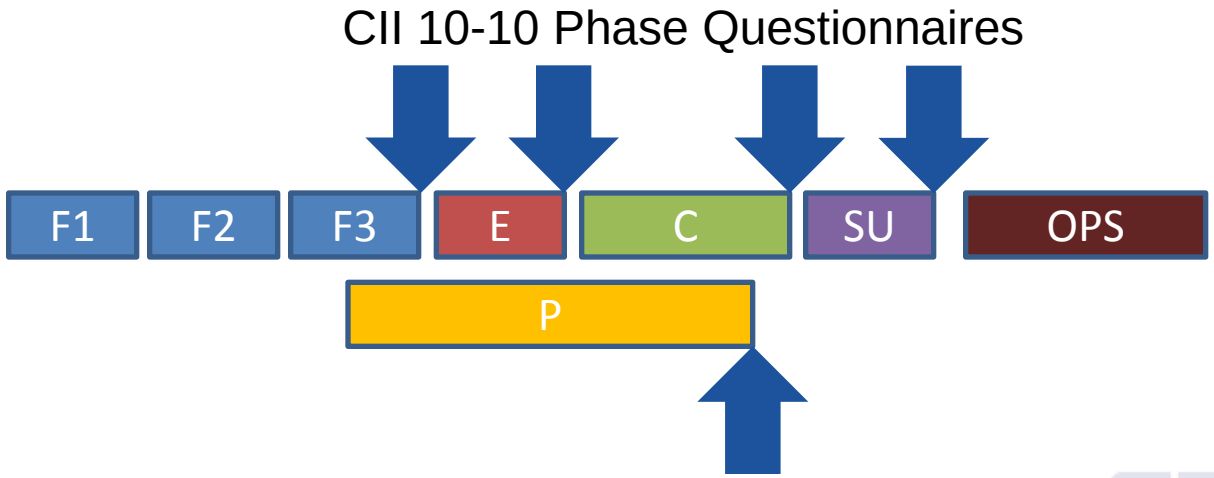
CII General Benchmarking Program

Process, Practice



CII 10-10 Program

People, Practice

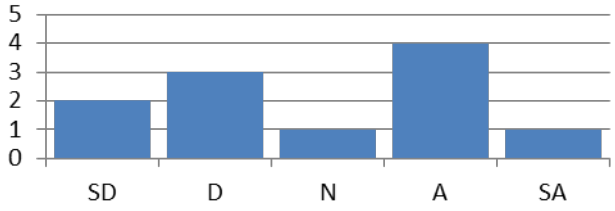


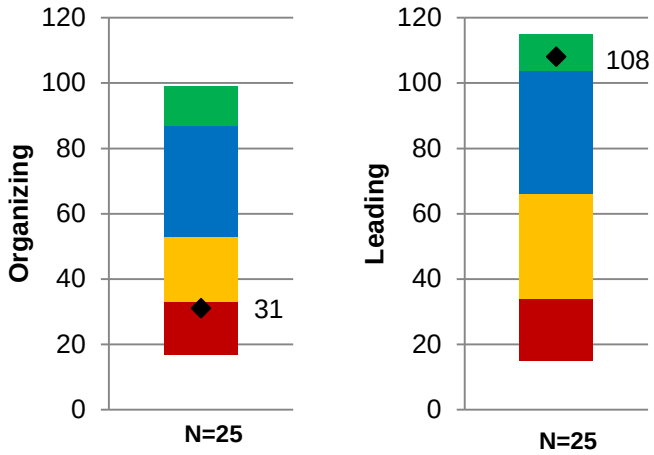
How CII's 10-10 Program Works

Sample Statement-Based Question

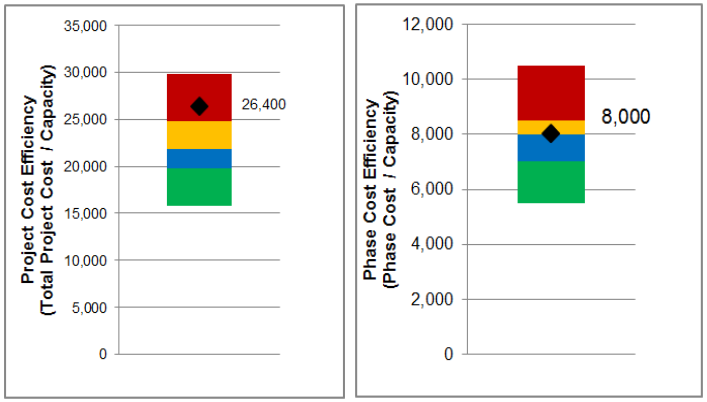
26. The interfaces between project stakeholders were well managed.	Strongly Disagree		Neutral		Strongly Agree
	◘	◘	◘	◘	◘

Q26





Sample Input Metrics



Sample Output Metrics

- **Project Diagnostics (KBSC)**
- **Implement CII Research and Tools**

10 Leading Indicators (Inputs)

CII 10-10

CII 10-10 Performance Assessment Report
Industrial Projects - Engineering Phase
TENC12345 ~ Zydeco Chemicals Expansion

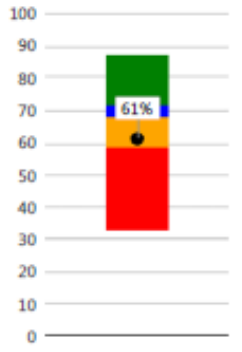
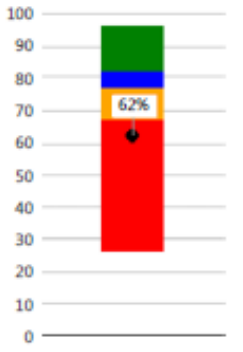
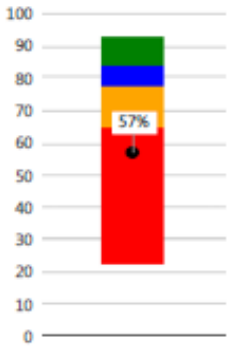
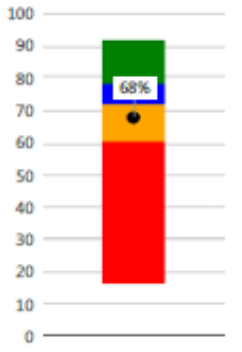
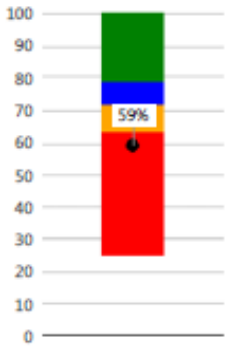
Date: Sep 10, 2014

Project General Information

Company:	CII Engineering & Construction. Co.
Project:	Zydeco Chemicals Expansion
ID:	TENC12345
Location:	New Orleans, Louisiana, United States
Project Type:	Chemical Manufacturing
Capacity:	100,000.00 short tons per day

Total Project Cost	
Local (2011):	USD 275,000,000
Chicago (2013):	USD 289,382,845
Midpoint of Phase:	Dec 17, 2011
Forecasted Phase Duration:	65.00 wks
Actual Phase Duration:	91.29 wks

Input Measures

Planning	Organizing	Leading	Controlling	Design Efficiency
				
Score: 61%	Score: 62%	Score: 57%	Score: 68%	Score: 59%
N: 45	N: 46	N: 46	N: 46	N: 46

Planning					Organizing					Leading					Controlling					Design Efficiency				
Min	1Q	2Q	3Q	Max	Min	1Q	2Q	3Q	Max	Min	1Q	2Q	3Q	Max	Min	1Q	2Q	3Q	Max	Min	1Q	2Q	3Q	Max
33%	59%	68%	72%	86%	26%	67%	77%	82%	96%	23%	65%	78%	84%	93%	17%	61%	72%	78%	91%	25%	64%	72%	79%	100%

10 Outputs (Capacity and FTE-Based Metrics)

Table 5: List Output Metrics by Phase

Metrics Type	FEP/PROG	ENG/DES	PRO	CON	STA/COM
Capacity-based Metrics	1. (Building) Forecasted Project Cost Efficiency 2. (Building) FEP (Programming) Cost Efficiency 3. (Building) Forecasted Project Schedule Efficiency 4. (Building) FEP (Programming) Schedule Efficiency	1. (Building) Forecasted Project Cost Efficiency 2. (Building) Engineering (Design) Cost Efficiency 3. (Building) Forecasted Project Schedule Efficiency 4. (Building) Engineering (Design) Schedule Efficiency 5. (Building) Capacity Efficiency	1. (Building) Forecasted Project Cost Efficiency 2. (Building) Total Equipment Cost/Capacity 3. (Building) Forecasted Project Schedule Efficiency 4. (Building) Procurement Schedule Efficiency	1. (Building) Forecasted Project Cost Efficiency 2. (Building) Construction Cost Efficiency 3. (Building) Forecasted Project Schedule Efficiency 4. (Building) Construction Schedule Efficiency 5. (Building) Capacity Efficiency	1. (Building) Actual Project Cost Efficiency 2. (Building) Startup (Commissioning) Cost Efficiency 3. (Building) Actual Project Schedule Efficiency 4. (Building) Startup (Commissioning) Schedule Efficiency
Relative Metrics	5. FEP (Programming) Cost Growth 6. FEP (Programming) Schedule Growth	6. Engineering (Design) Cost Growth 7. Engineering (Design) Schedule Growth	5. Procurement Schedule Growth 6. Total Cost of Equipment/Total Project Cost	6. Construction Cost Growth 7. Construction Schedule Growth	5. Startup (Commissioning) Cost Growth 6. Startup (Commissioning) Schedule Growth
Phase burn Metric	7. FEP (Programming) Burn Rate	8. Engineering (Design) Phase Burn Rate	7. Procurement Phase Burn Rate	8. Construction Phase Burn Rate	7. Startup (Commissioning) Phase Burn Rate
Procurement Metrics			8. Total Cost of Equipment/Total Number of Major Equipment 9. Total Project Cost/Number of Vendors 10. Total Project Cost/Number of Purchase Orders		
FTE-Based Metrics	8. Project Management Team Size/Total Project Cost (Adjusted for Complexity)	9. Project Management Team Size/Total Project Cost (Adjusted for Complexity) 10. Engineering Team Size/Total Project Cost (Adjusted for Complexity) 11. Engineering Team Size/Engineering Phase Cost	11. Project Management Team Size/Total Project Cost (Adjusted for Complexity) 12. Procurement Team Size/Total Project Cost (Adjusted for Complexity) 13. Procurement Team Size/Total Cost of Major Equipment	9. Project Management Team Size/Total Project Cost (Adjusted for Complexity) 10. Craft Work Force/Construction Phase Cost	8. Startup (Commissioning) Management Team Size/Total Project Cost (Adjusted for Complexity) 9. Startup (Commissioning) Phase Management Team Size/Startup Phase Cost
Safety Metrics				11. TRIR 12. DART	

Questions?

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