

NECA
Boston
2016
OCT. 7-10
CONVENTION
EDUCATION

How the Use of a Lesser Skilled Workforce has Impacted the Industry

How the Use of a Lesser Skilled Workforce has Impacted the Industry

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MCA Inc.

**This session is eligible for
1 Continuing Education
and 1 Contact Hour.**



For these hours to appear on your certificate, you must:

- Have your badge scanned at the door
- Attend 90% of this presentation
- Fill out the online evaluation for this session

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Presentation Outline

- Industry impact of lesser-skilled workforce
- How is lesser-skilled workforce being used
- What are the results of using and tracking lesser-skilled workforce



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Impact of Using a Lesser Skilled Workforce

- Cost reduction through reducing composite rate
- Higher quality through externalized work
- Market share gains through increased capacity at lower cost



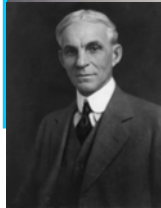
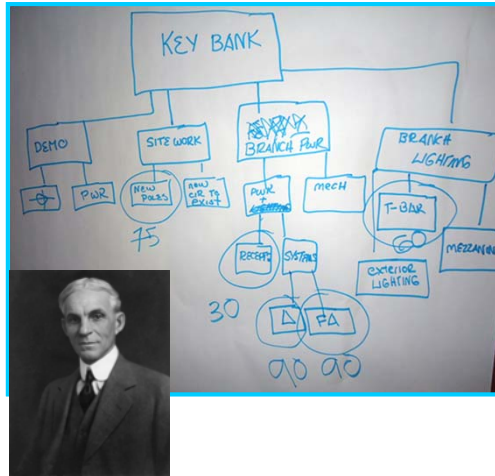
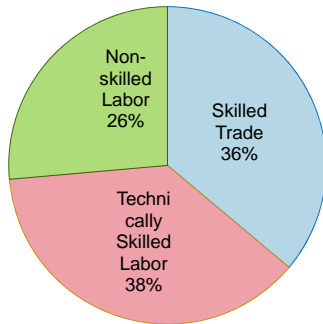
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How is a Lesser Skilled Workforce Used



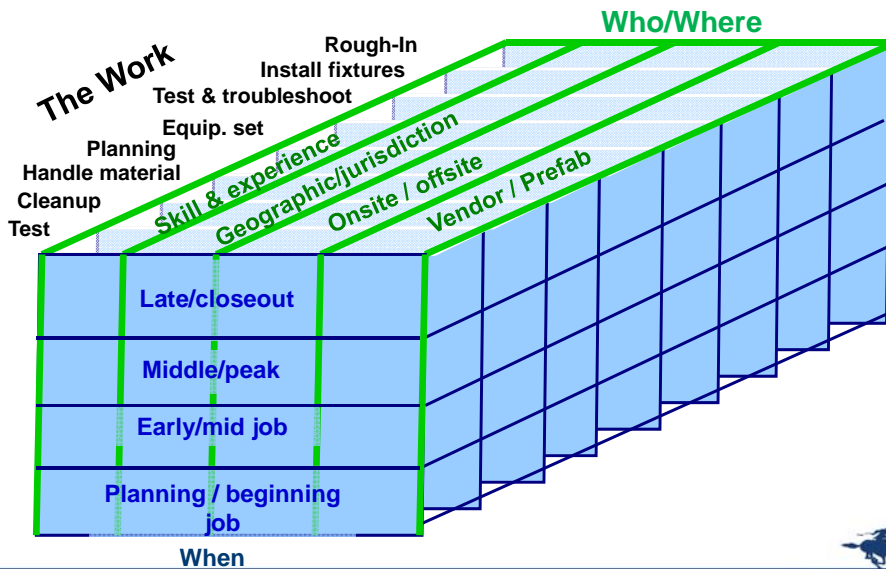
Segregation of Work



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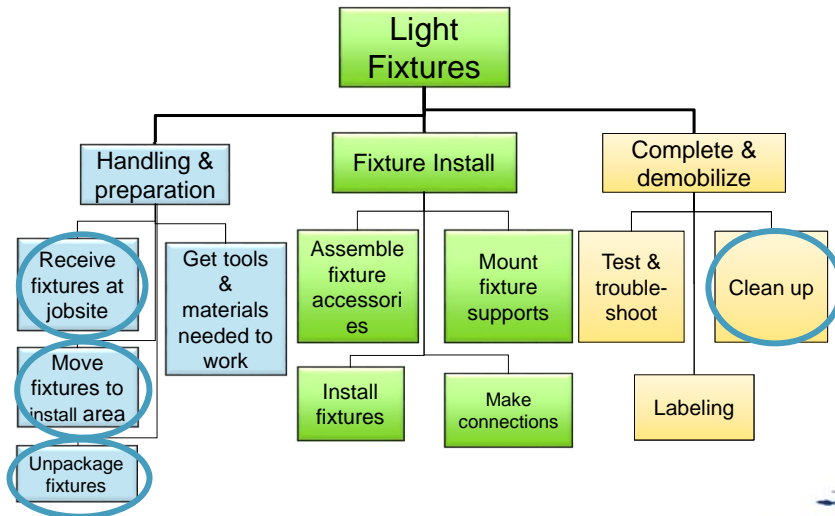
Dimensions of Work



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Identifying Work for a Lesser Skilled Workforce



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How is a Lesser Skilled Workforce Used



Finer breakdown leads to lower composite rate

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How is a Lesser Skilled Workforce Used



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Tracking the Use of a Lesser Skilled Workforce

- Comparison to WBS and planned usage
 - Usage of ASTM E2691
- Composite rate trending
- Short interval scheduling (SIS®)
- Improvement on amount of externalized work, and contribution of lesser-skilled workforce

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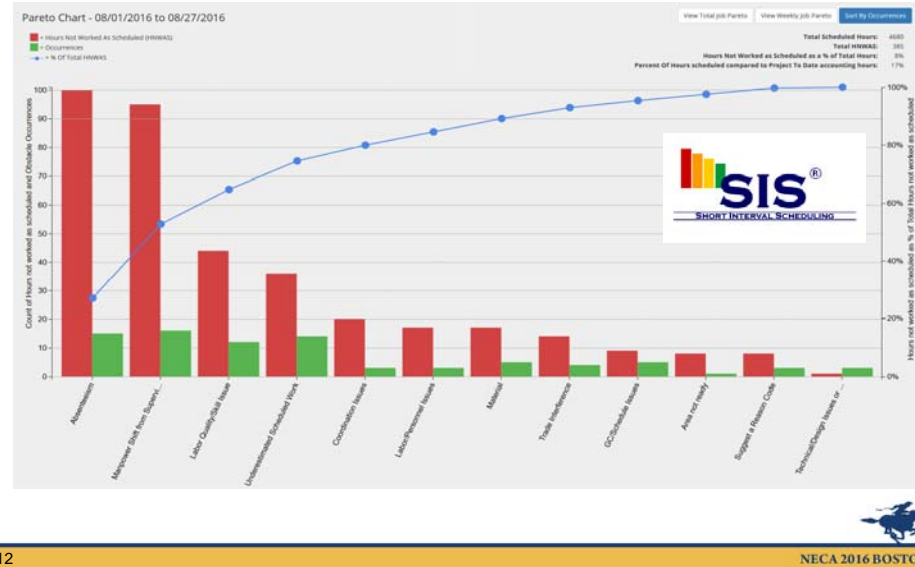
Tracking the Lesser Skilled Workforce



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Tracking the Lesser Skilled Workforce



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Tracking the Lesser Skilled Workforce

The screenshot shows the SIS software interface. At the top, it displays the project details: Company: MCA, Division: Field, Project: Heather Demo, Job: Office Building, User: Moore, Heather. The schedule is for Thursday, August 25, 2016, Friday, August 26, 2016, and Saturday, August 27, 2016. A table lists tasks with columns for Contract/Job #/Crew #, Task, Quantity, Sched Hours, Need Materials?, and Need Tools?. The total hours for the tasks listed is 15.5. Below the table, there are sections for Material Notes and Tool Notes. The SIS logo is visible at the bottom center of the interface.

Contract / Job # / Crew #	Task	Quantity	Sched Hours	Need Materials?	Need Tools?
Bill	Pull strings for 3rd floor west wing	10	2	<input type="checkbox"/>	<input type="checkbox"/>
Bill	Finish 2nd floor branch wire pull	Complete 2nd floor	6	<input type="checkbox"/>	<input type="checkbox"/>
John	Layout for 4th floor conduit install	Complete layout	1	<input type="checkbox"/>	<input type="checkbox"/>
John	Install cable tray - 3rd floor	100'	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
John	Prepare for large cable pull to be done tomorrow		.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Total: 15.5

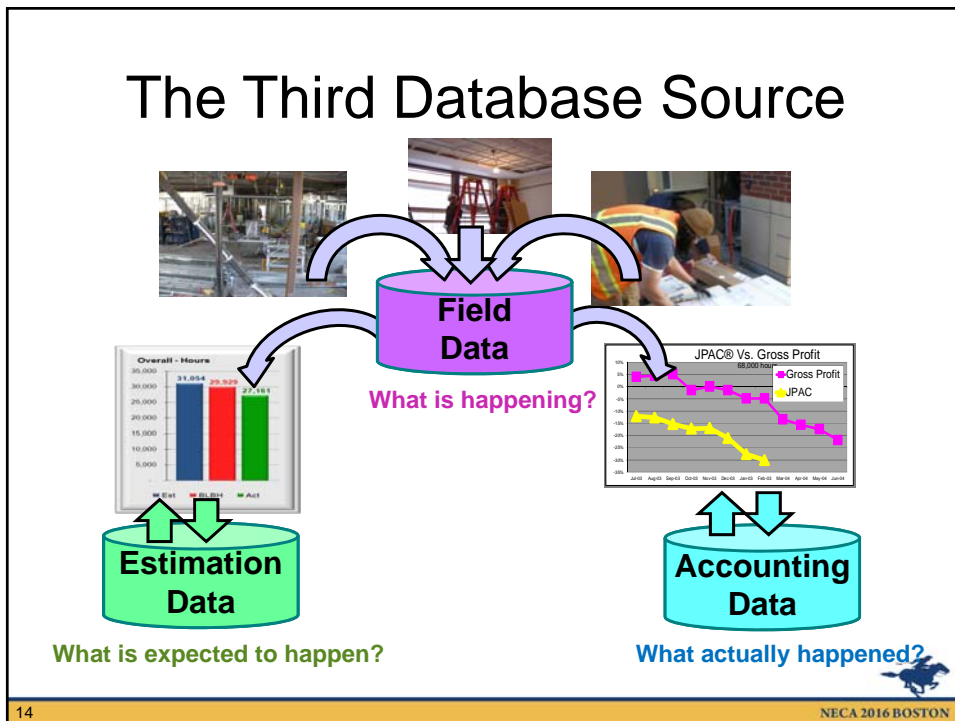
Material Notes: Need tray with radius from prefab shop

Tool Notes: Make sure tugger is setup for tomorrow

Total: 15.5

Buttons: Save, Submit Schedule, Clear Schedule, Download PDF, Add 1, More Tasks, Work Shift Start, No Work Scheduled

The Third Database Source



Summary

- How has the user of a lesser-skilled workforce impacted the industry?
 - Cost reduction
 - Higher quality
 - Market share gains
- How can you increase the usage of lesser-skilled workforce to gain these advantages?
 - Breaking down and segregating work
 - Externalizing work®
 - Focus on managing work, not just installation or hours
- How are the results of using lesser-skilled workforce tracked?
 - Composite rate trends
 - Understanding obstacles and impacts
 - Short Interval Scheduling (SIS®) for daily tasks, goals and resource needs
 - Allocation of project to externalized work



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Thank You

Don't forget...

- 10:15 - 11:30 am – Special Session:
Boston Strong
- 11:30 am - 4:00 pm – NECA Show Hours



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