



Construction Owners
Association of Alberta

COAA

WorkFace Planning Best Practice XVI Conference

Jeph Virtue

May 21, 2008





This Year's Sweat Equity

Jeph Virtue (Chair)

Darrell Coughlin
Roger Van Den Bossche
Ray Johnson
Doug Hawkins
George Jergeas
Lloyd Rankin
Raymond Rewcastle
Dave Witskin
Brian Roy
Bill Luxton
Gary Semaniuk
John Vincent
Kalvin Tsang
Kelly Jawhari
Morris Youell
Geoff Ryan

Suncor

Flint Energy
Flint Energy
Bantrel
CLRA
UofC
Ascension Systems
Lockerbie & Hole
Brand Aluma Scaffold
Brand Aluma Scaffold
SAIT
Stantec
Worley Parsons/Colt
JV Driver
JV Driver
JV Driver
Insight-WFP

Niels Frederiksen
Sandy MacElheron
Maurice D'Aoust
Jose Herrero
Preston Noton
Todd Rapp
Ron Embury
Paul Kristensen
Dennis Meads
Dennis Krenz
Kevin Moorehouse
Doug Mitchell
Randy Regan
Linda Savage
Stewart Garry
Jerry Bell

Jacobs
Jacobs
Jacobs
Fluor Canada
Hatch
Conoco Phillips
NOVA
BA Energy
Nexen
Total
Petro-Canada
Petro-Canada
Suncor
Suncor
Suncor
Shell

Added more Owners for Implementation Phase



WorkFace Planning Definition

- **WorkFace Planning is the process of organizing and delivering all the elements necessary, before work is started, to enable craft persons to perform quality work in a safe, effective and efficient manner.**





Owner Commitment





WorkFace Planning

“Plan the Work”

“Release the Work”

“Work the Plan”

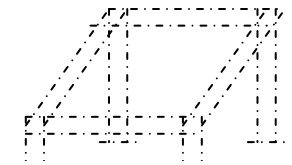
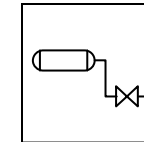


Dedicated Planner

Materials & Equipment
Coordinators



Supervisor



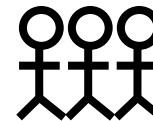
Scope

Field Installation
Work Package

- Safety Requirements
- Tools
- Equipment
- Trades/Specialists
- Detailed Plan
- Drawings
- Vendor Info.
- Materials
- Supervisor Review

1 day to 4 weeks of
defined scope.

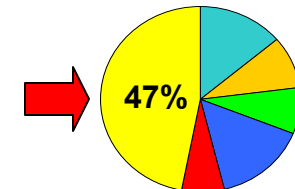
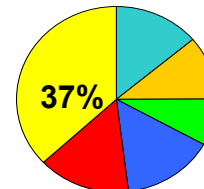
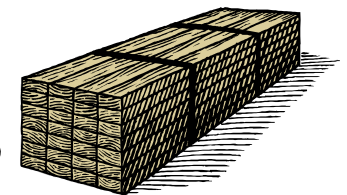
Ready
✓



Team



Tools



Tool Time Improvement

Prerequisites





With WorkFace Planning



Without....



Improved:

- Safety
- Schedule Predictability
- Productivity
- Quality
- Morale





Evidence Building But Need More

- **2 Identical Hydrotreater Projects:**
 - Project using WorkFace Planning had 25% better productivity and better schedule predictability
- **COAA Award Submission:**
 - Ledcor (Nisku Mod Shop):
 - 25% productivity savings vs. historical
 - Jacobs (Petro-Canada RCP Sulphur Project):
 - reduced wait time, no labour disputes, improved tracking and schedule performance
- **COAA Benchmarking**
 - WorkFace Planning scorecard key elements added
 - Rigorous and credible



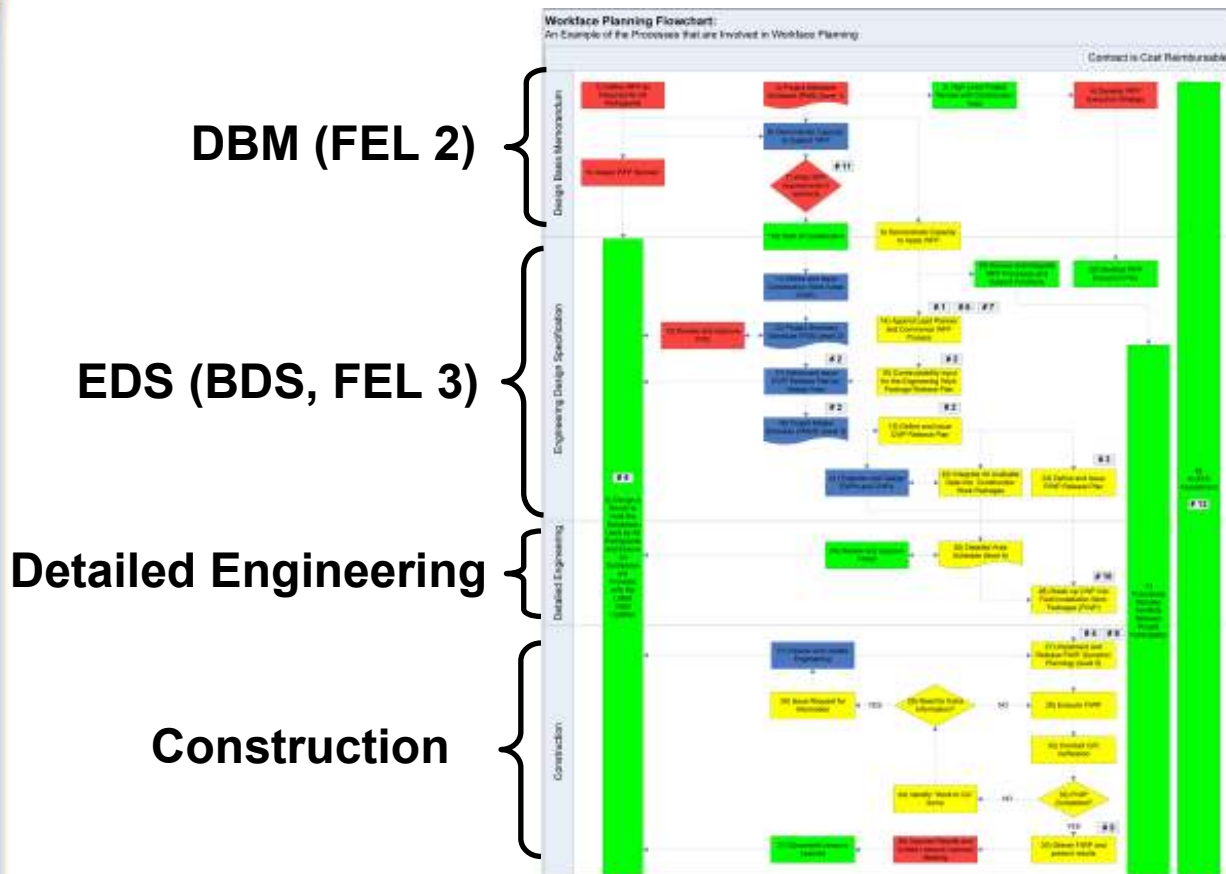


- **Rules and Scorecard Update**
 - Timeline
 - Champion and Sponsor
 - Owner Execution Strategy
- **CWP Best Practice**
- **Flowchart**
 - Work Process

```
graph LR; A[WorkFace Planning] -.-> B[Success]
```

**WorkFace
Planning**

Success



Construction Management Team

Owner

Engineer

Construction Contractor





Training

- **1/2 Day Essentials**
 - Executive, Management, Supervision
 - Owner, EPCM, Construction Contractors
- **4 Day Fundamentals**
 - WorkFace Area and Integration Planners, Champions, Coordinators (Equipment, Material, Tool, Scaffold)
 - Owner, Construction Contractor, Construction Manager
- Book now ... learn more at the booth.





1/2-day course

- Bantrel
- Bird
- Chemco Electric
- Fluor
- Graham
- Hatch Energy
- Jacobs
- Ledcor
- Monad Industrial Constructors
- PCL Industries
- Petro Canada
- Pillar Oilfield Projects
- Shell Canada Energy
- SNC Lavalin
- Steeplejack
- Suncor
- Syncrude
- ThyssenKrupp Safway
- TIC Canada



4-day course Aluma Systems

- Bantrel
- Flint Energy
- Fluor
- Graham Industrial
- Horton CBI
- Intergraph
- IPA
- Ironworkers 720
- Jacobs
- JV Driver
- Steeplejack
- Suncor
- Technip
- TIC Canada
- Waiward Steel
- Worley Parsons Colt





Working the Plan





Pipe Rack “WFP” Assembled





HOME

WorkFace Planning is Here.

It's considered a Best Practice of the Construction Owner's Association of Alberta. It's about getting the right things to the right people at the right time to save money and improve productivity in your large-scale construction projects.

Take a few minutes to click through this website and get an overview & executive summary of WFP as well as in-depth information about the WFP model and processes (from high-level theory to practical application) with implementation guides and sample WFP-specific document templates and reference sheets.

Note: You will need the Adobe Reader to view PDF files. Click the below icon to download the free version.



Are you looking for the WorkFace Planning courses offered through SAIT?

WFP Training Programs



WorkFace Essentials (CNST-164)	1/2 Day WorkFace Planning overview course
WorkFace Planning Fundamentals & Work Packaging (CNST-244)	4 Day WorkFace Planning course

[Click here for a sample brochure outlining both courses](#)

Go to www.coaa.ab.ca and navigate to Best Practices > WorkFace Planning for more on the courses or go to www.sait.ca/coned and do a course code search for the course info pages (CNST-164; CNST-244).



overview summary in-depth guides faq archive

Rules of WFP

Creating a Plan

FIWP Req's

WFP Infra.

The WFP Model

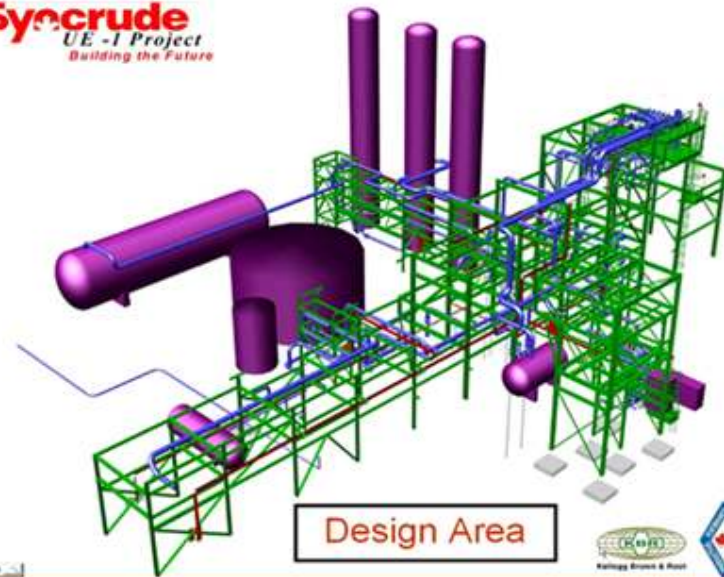
specify required FIWPs, who will develop them and who is responsible for their integration. *this is critical information for parties preparing bids and failure to disclose could result in a claim!*

3) Determining Required FIWP

The construction management team needs to determine which FIWP are required to construct the CWP.

The slide show below provides a simplified example of how a design area can be broken into a series of CWP that can be further broken into a series of discipline-specific FIWPs:

Synocrude
UE -1 Project
Building the Future





Next Year's Focus

- **Best Practice developing the Path of Construction**
- **More verification**
- **Execution Strategy Template**
- **Designated Occupation**
- **Presentations to ENR, CURT, PMI**





Workshop

Presentation

- WorkFace Planning Overview

Panel Discussion:

- Industry leaders using WorkFace planning now
- Lessons Learned....share your learnings too





Learnings



How well did you do your Path of Construction?





More Info

www.coaa.ab.ca

Thankyou

