

AWP (Advanced Work Packaging) What is it?

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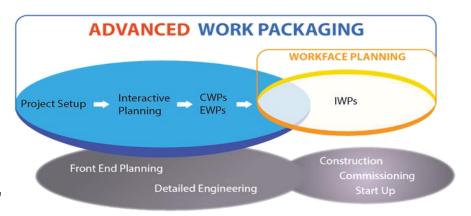


AWP is all about improving project productivity



As well as better productivity it also brings greater predictability, increased safety and lower project costs

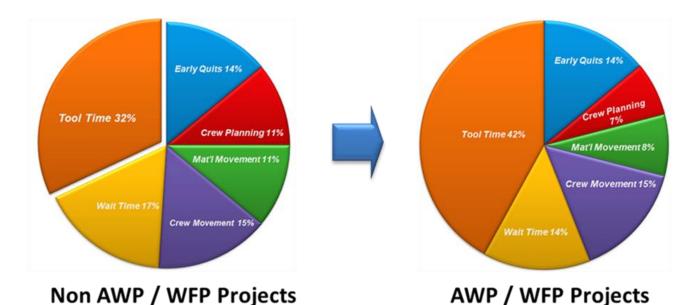
- Construction-driven process
- Supports the path of construction
- Align the different elements of a project for improvement
- Provide a disciplined and rigorous process for detailed construction planning
- Ensures work is executed in a safe, organized, sustained, and effective manner
- Assure Construction as its customer allowing the field to receive drawings & material in correct sequence thus allow for a more efficient build, commission and start-up/handover





Benefits of WFP





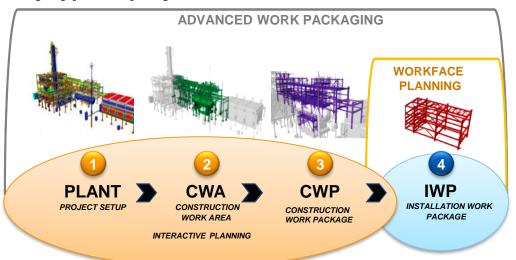


Potientally 10% more tool time is nearly 25% improvement in productivity Labor is typically 40% of TIC = AWP Provides Up to 10% Reduction in TIC

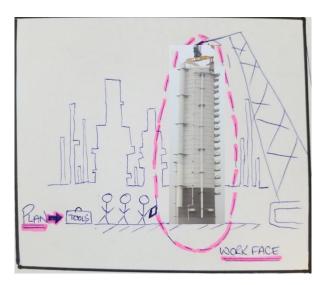
The key for AWP is the project hierarchy



Whilst this is an oil & gas example, this can refer to any type of project.



At Fluor, AWP is core methodology for all types of projects, we achieve this through collaborative working, reinforced with continuous training and coach of all our teams and clients.



An organised approach of breaking the project down in to manageable pieces.

Journey / Path of AWP



Construction Industry Institute (CII), initiated a Research Team (RT) aiming to develop an executable model of enhanced work packaging based not only on WFP but also on other industry work packaging practices. Following a review of industry and trade literature and in conjunction with the development of case studies, the team developed a lifecycle execution model for WFP with an emphasis on field implementation

Joint CII / COAA Research project RT272
Phase 2 Released - extending the execution model of Advanced Work Packaging with consideration of implementation challenges documented through surveys and expert interviews in North America and globally.

2005 2009 2011 2013 2019

Construction Owners Association of Alberta (COAA) WFP as a best practice. The purpose of the development of WorkFace Planning (WFP) was to overcome the challenges facing in executing and construction its Oil Sands projects. Those challenges are manifesting in cost overruns including in front end planning, design, procurement, organization processes, construction, etc.

CII Research project RT272 Phase 1 Released - focused on the development of an execution model for the project life cycle with an emphasis on field implementation along with a set of industry case studies and collection of benefits evidence.

1st London AWP Conference.

What is WFP and the idea behind it!





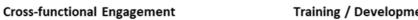
WorkFace Planning (WFP) is the process of organizing and delivering all elements necessary before work is started, to enable craft persons to perform quality work in a safe, effective and efficient manner. (COAA, CII)

Costs of AWP



Typically a Project must dedicate 1-2% of project costs to increase planning by having:-









General Foreman

Training / Development

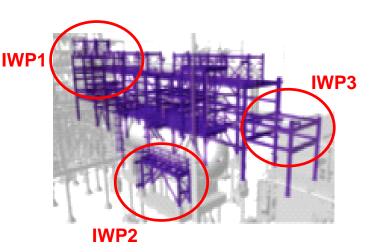
Covid-19 – Benefits of IWP's



An unforeseen benefits of using IWP's have been experienced with Covid 19 and one of our major O&G project in Central.

Planning of IWP's ensure safe distances are being maintained between workers by:-

- Restricting the size of the crews with the tasks being performed
- b) Ensuring adequate distances are being maintained between workfaces.
- c) IWP basis is that all materials / tools & equipment are at the workface prior to any work commencing (reduce unnecessary travel)



Next Steps



To gain further knowledge about AWP / WFP, there are plenty of sources on the internet, here are a couple I recommend:-

LinkedIn group - <u>Advanced Work Packaging Community of Practice</u>

Youtube videos - ("A beginner's guide to Advance Work Packaging"
 Pull Man)

Industry Webinars – ASI group / LinkedIn / Youtube



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