Joint Industry Collaboration (JIC) For AWP & PPM

JIC Program Objectives

- Be a platform for collaboration & information sharing for adoption of AWP & PPM within Oil & Gas industry in Malaysia
- Gather feedbacks on challenges & constraints in implementation of AWP/PPM; deliberate best approach to mitigate each challenges
- Establish industry guideline & standardise implementation approach which are most effective for local industry context

To optimise value deliver
- Improve efficiency
- Improve productivity
- Improve profitability

Through adoption of AWP & PPM

Joint Industry Collaboration (JIC) for AWP & PPM adoption within Malaysia Oil & Gas Project players to facilitate transformation of the industry

Phase 1:
Establish Platform – “Moving Forward Together”
- Connect relevant stakeholders & key industry players
- Promote awareness & gather industry feedbacks
- Discover collaboration areas

Phase 2:
Shaping the Industry – “Collaborative Adoption”
- Streamline approach based on best practice & lessons learnt
- Collective advancement journey e.g. capability building & work process improvement

Phase 3:
Continuous Improvement – “Community of Practice (COP)”
- Exchange ideas, research & development towards enhanced productivity, efficiency & maximize value

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Advanced Work Packaging is a methodology created by CII for construction-driven planning and collaboration system for building capital projects that is sharply focused on creating a constraint-free work environment in the field.

**What Is AWP?**

**Advanced Work Packaging**

Thinking with the “end in mind” – Construction leadership & involvement in early stages i.e. Front-End Engineering

Construction-driven “Integrated Planning” with Engineering & Procurement to establish the “Path of Construction”

Logical & standardized WBS approach

Workface Planning & Constraint Management

**Key Principles**

**Some Benefits Of AWP**

- Improved safety planning, awareness and performance
- Reduced cost through improved labor productivity and reduced rework
- Improved overall project predictability for cost and schedule
- Better alignment among stakeholders from planning through construction
- Improved quality of reporting from planning through construction
- Improved quality of reporting from effective progress tracking
- Improved construction quality
- Enhanced turnover

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**WHAT IS PPM?**

**PROJECT PRODUCTION MANAGEMENT**

“Strategic approach created by Project Production Institute that applies theories and principles of Operations Science to optimise project delivery”

**PROJECT MANAGEMENT** - cost, time and cash as a function of trade-off between scope/quality, schedule and use of resources (Iron Triangle)

Cost, Time & Cash + Scope & Quality + Schedule + Resources

**PROJECT PRODUCTION MANAGEMENT** - cost, time and cash as a function of interrelationships between product design, process design, capacity, inventory and variability

Cost, Time & Cash + Product design + Process design + Capacity + Inventory + Variability

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**Main Difference**

Project Production Management (PPM) views project as production system. Use of a production system framework allows for the applications of Operation Science as the technical basis to map, model, analyse, optimise, control and improve project production system performance.

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**Main Benefits Of Project Production Management**

- Schedule is accelerated
- Direct and indirect costs
- Benefits are amplified as complexity increases

**What Needs To Be In Place**

- Production scheduling and planning system needs to be in place to help manage the flow of production through the production process

**Management Infrastructure Needs To Be In**

- Place and specific mindsets/behaviors need to be established to support Project Production Management

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