

#### **COAA BEST PRACTICE WORKSHOP**

# CONSTRUCTION MANAGEMENT COMPETENCY

Presenters: John Boddy, Sr. Manager Construction, Husky Energy
Terry Grant, Director of Business Development, Graham Construction



## **AGENDA**

- Opening Remarks
- " Benefits of Competency Management
- The Sample Competency Management Tool
- " Participant Input Session (Workshop Participation)
- Conclusion



#### **OPENING REMARKS**

Competency does not equal Productivity (but it sure

helps)

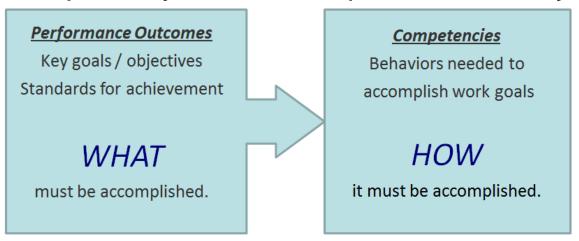


COAA Goal: to create a Construction Management Competency Best Practice



#### **OPENING REMARKS**

Competency does not equal Productivity



COAA Goal: to create a Construction Management Competency Best Practice



#### **BENEFITS OF COMPETENCY MANAGEMENT**

- Ensure Regulatory Competency is met
- "Support Project Outcome (safety, schedule, cost and quality)
- " Employee Development
- Company Resources (Strengths, Weakness, Opportunities, Threats)
- " Understand Training Requirements

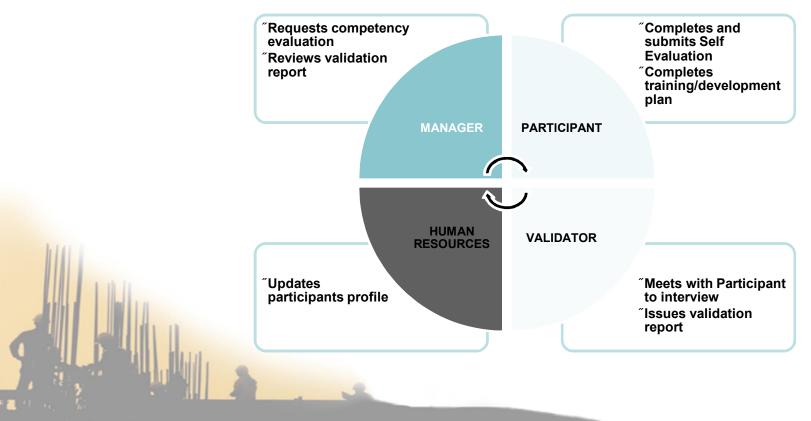


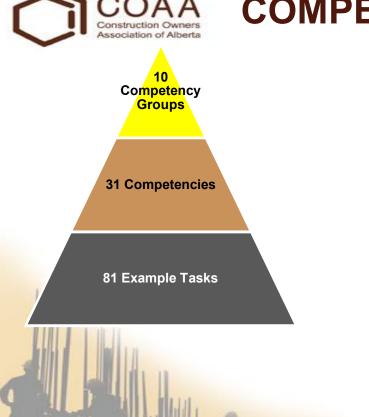
# SAMPLE COMPETENCY MANAGEMENT TOOL



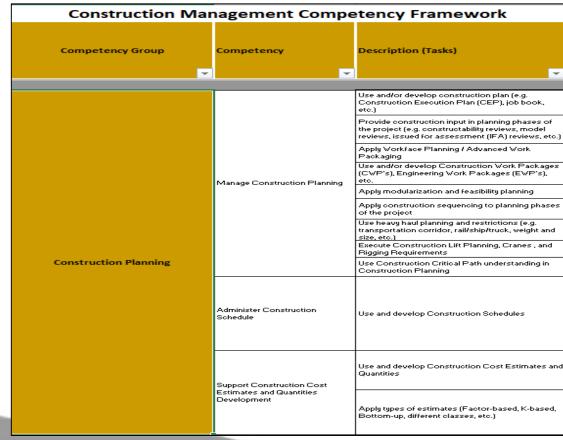


## **COMPETENCY MANAGEMENT LIFECYCLE**





## **COMPETENCY TOOL FRAMEWORK**





## **PROFICIENCY RATINGS**

## PROFICIENCY RATING SCALE - use the numbers on the self-assessment

Rating	Proficiency	Details				
1	Awaranasa	Has knowledge; isn't actually performing the work; or isn't applying skills (may no				
1	Awareness	have attained skills yet)				
2	Basic Application	Applies existing or new skills but generally needs feedback or supervision				
3	Skilled Application	Is fully qualified/capable; is self-initiating; can be deemed competent				
4	Mostory/Evnort	Highly skilled; usually can perform cross-functionally; advanced troubleshootin				
	Mastery/Expert	coaches others or manages				





# **CONFIDENCE RATINGS**

CONFIDENCE RATING SCALE - use the numbers on the self-assessment								
Rating	Can Coach/Mentor Others	Details						
1	Not overly comfortable coaching/mentoring others	Stills needs to ask others to confirm technical knowledge & skills						
2	Willing to coach others	Can demonstrate to others the concepts and skills required						
3	Coaches/mentors others easily / intuitively (automatically)	Can explain without effort in plain language to others the concepts and skills required by demonstrating, providing comparisons, scenarios and examples						



# **PAA CONSTRUCTION MANAGEMENT ROLES**

Construction Management Roles - use for the self-assessment							
Role	Details						
Construction Director	Highly experienced (Canadian and International) in managing, planning and execution of projects of various sizes and complexities up to mega project level						
Tier 1 Construction Manager	Highly experienced in managing, planning and execution of projects of various sizes and complexities up to mega project level						
Tier 2 Construction Manager	Experienced in managing planning and execution of projects of various sizes and complexities up to \$150MM						
Tier 3 Construction Manager	Experienced in managing planning and execution of projects of various sizes and complexities up to \$10MM						
Tier 1 Construction Superintendent	Highly experienced in execution of projects of various sizes and complexities with scope responsibilities up to \$150MM						
Tier 2 Construction Superintendent	Experienced in execution of projects of various sizes and complexities with scope responsibilities up to \$40MM						
Tier 3 Construction Superintendent	Experienced in execution of projects of various sizes and complexities with scope responsibilities up to \$5MM						
Tier 1 Construction Coordinator	Highly experienced in execution of project coordination related to various sizes and complexities up to large projects						
Tier 2 Construction Coordinator	Highly experienced in execution of project coordination related to various sizes and complexities up to small projects						



# **SELF EVALUATION TOOL**

	Construction Management Compet	ency Self Eva	aluation						
	Personnel Name:								
	Position Title		Con						
	Competency Role (see 'Rating Scales to Use' tab for more information)	g) Tier 3 Construction Superintendent							
	Business Unit:								
	Reports to:								
Click on "+" to expand on tasks related to the Competencies. Click on "-" to hide tasks.									
Competency Groups	Competencies	Proficiency Self Rating (use number from scale on Tab2)	Confidence Rating (use number from scale on Tab2)	Select the Importance of Each Competency Performed	Select the Frequency of Each Competency Performed	Need or Want More Training/ Learning	Self-Evaluator's Comment Field (add comments to more detail on which type of training you may want in this column)		
	Manage Construction Planning	2	2	Is important	Weekly	NO	I would like an opportunity to manage the construction / project planning on complex projects		
	Administer Construction Schedule	2	2	Critical	Daily	YES	I would like an opportunity to either develop construction / project schedule or be actively involved in the development of the schedules.		
	Support Construction Cost Estimates and Quantities Development		2	ls important	Monthly	NO	I would like an opportunity to either develop construction / project cost estimate or actively involved in the development of the estimate.		
► Self&Guideo	d Asssessment Rating Scales to Use Dr	opdowns Va	alidator's Tab	Result: (	+ : 1				



# **VALIDATION TOOL**

Competency Groups	Competencies	Proficiency: Role Requireme nt	Proficiency Self Rating (use number from scale on Tab2)	Result (use formula)	Confidence Rating (use number from scale on Tab2)	Select the Importance of Each Competency Performed	Select the Frequency of Each Competency Performed	Need or Want More Training/ Learning	Validator's Focus <i>t</i> Direction		Self-Evaluator's Comment Field (add comments or more detail on which type of training you may want in this column)	Validator's Comment Field (add comments or more detail on which type of training you may want in this column)
	Manage Construction Planning	2	2	0	2	ls important	Weekly	NO	• 0		planning on complex projects	Look for coaching opportunity with project manager of buildings
	Administer Construction Schedule	a	1	-1	2	Critical	Daily	YES	<b>○</b> -1		I would like an opportunity to either develop construction I project schedule or be actively involved in the development of the schedules.	look for involvement with different teams to engage in planning sessions
	Support Construction Cost Estimates and Quantities Development	2	2	0	2	ls important	Monthly	NO	• 0		I would like an opportunity to either develop construction I project cost estimate or actively involved in the development of the estimate.	look for involvement with senior cost estimator for mentoring
Construction	Manage Construction Risk Assessment & Analysis	2	2	0	2	ls important	Monthly	NO	• 0	3		Shows excellent grasp of risk management and able to coach others
Planning	Manage Construction Stakeholders Interfaces	1	2	1	3	ls important	Few times/uear	NO		3		
Self&Guide	ed Asssessment Rating	Scales to U	Jse Dro	odowns	Validato			÷ : •				



#### **COMPETENCY REPORT**

Personnel Name: John Doe

Position Title: Construction Superintendent

Business Unit: Industrial Projects

Personnel's Supervisor: Jane Smith

Date of Validation: December 25, 2017

Location of Validation: Edmonton Field Office

Validator: Mike McDornish

#### 1 COMPETENCY SUMMARY

Item	Value
Total number of competencies for profile	31
Number of competencies "needs training"	5
Number of competencies for career growth opportunity	8
Number of competencies "not applicable"	0

#### 2 VALIDATOR'S COMMENTS

John Doe shows an excellent grasp of the major concepts of Construction Management. John would bennifit from some additional experience coupled with minor coaching and mentoring to ensure he maintains confidence while learning. Identified competencies show areas for improvement.

#### 3 PERSONNEL COMPETENCY DEVELOPMENT PLAN (IF APPLICABLE)

Validator to meet with John Doe's manager to discuss plan

#### 4 CAREER GROWTH OPPORTUNITY

John Doe shows an understanding of Construction Management Competencies at the Tier 3 Construction Manager level.



# PARTICIPANT INPUT SESSION





#### **INSTRUCTIONS**

- Use the scenario provided to complete the assigned section of the self-evaluation tool given to your group
- Discuss the various options (proficiency self rating, confidence scale, etc.) in the provided %ating scales to use+document



#### **SCENARIO**

You would like to assign a Construction Manager to a sizeable construction project. To support project success and regulatory requirements you're responsible to ensure that the CM has the appropriate competency level.

#### **Details:**

- The project has an estimated cost of \$160 M
- " Workforce expectation is 120 personnel (peak on site)
- " Work location: Western Canada
- Construction duration: 18 months
- There will be multiple contractors on-site



# STICKY NOTES EXERCISE







#### **SPECIAL THANKS**

- We would like to thank the following sub-committee members:
  - " Corey Langford
  - " Mike Yorke
  - " Ryan Timmermans
  - " Abraham Adesoye
  - " James Dawson-Edwards



# **CONCLUSION**





#### **CONTACT INFORMATION**

If you would like to provide additional information to this COAA Best Practice please contact:

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Thank you