Knowledge Management at Tacoma Water

American Water Works Association, Pacific Northwest Section Conference May 3, 2024

Purpose







What: Knowledge Management Why: Implement a Program How: Tools and Best Practices

Knowledge Management

The strategies and processes designed to identify, capture, structure, value, leverage, and share an organization's collective knowledge and intellectual assets.*

Goals:

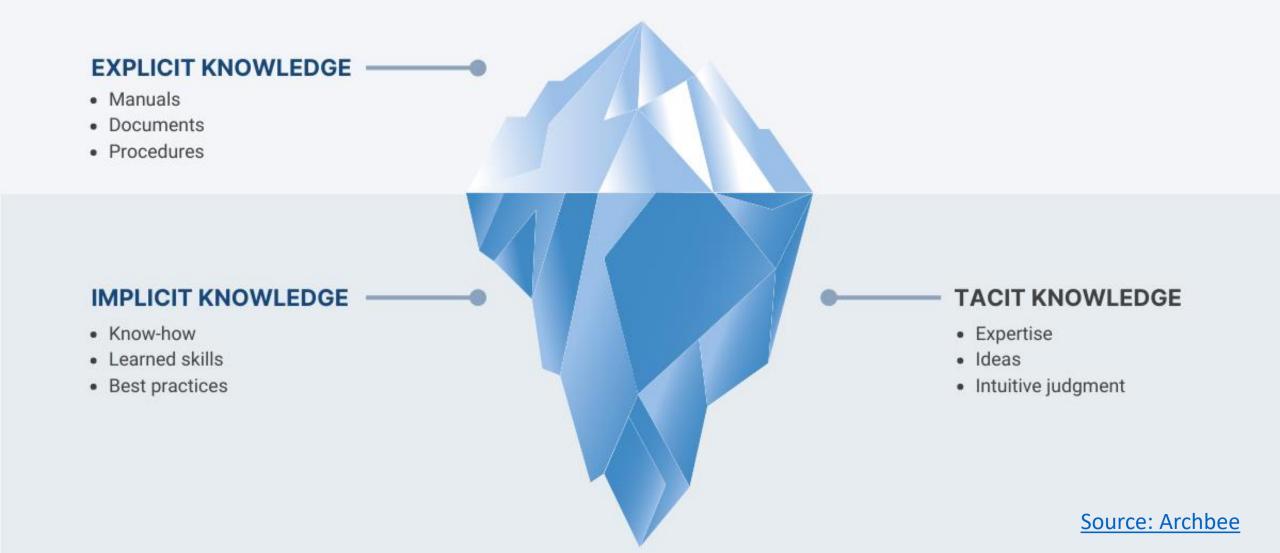
- Effectively capture and utilize the information that we've invested in the workforce.
- Grow the Knowledge Management program into a fully mature state

Critical activities:

- Capture and documentation of tacit and implicit knowledge
- Dissemination of that knowledge within the organization

*Definition from ARMA: Association of Records Managers and Administrators

EXPLICIT, IMPLICIT AND TACIT KNOWLEDGE



Knowledge Management at Tacoma Water

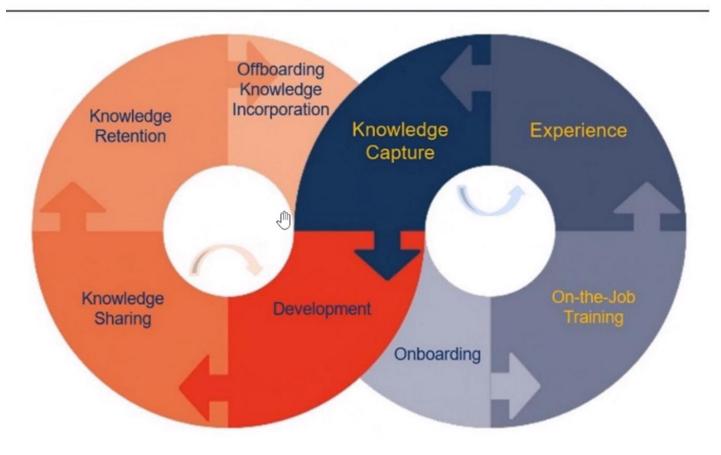
We envision a fully-mature knowledge management program within a modern environment



Elements of a Learning Organization

Concept development from Tim Billbrough, Southern NH University

Knowledge Management & Employee Lifecycle



The Problems We Faced

% of workforce eligible to retire

Needed a way to transfer institutional knowledge

Lack of succession planning

Solution – Knowledge Management



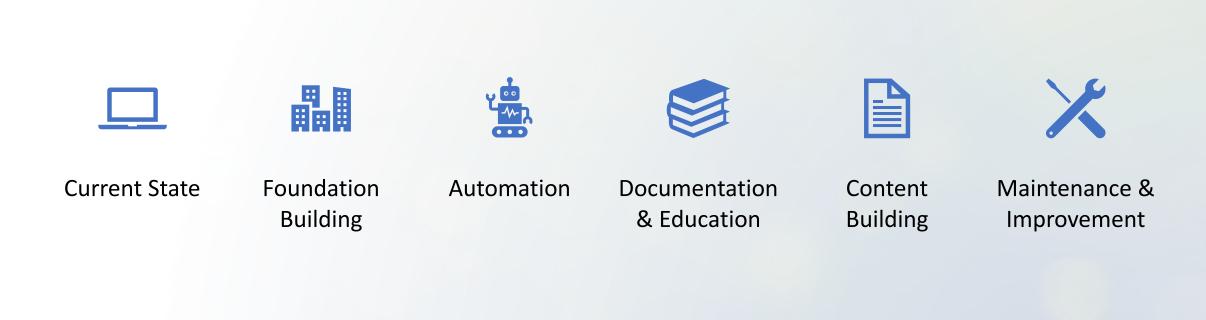


How we built our program

Best Practices



Knowledge Management: Road Map



Knowledge Development Questionnaire Knowledge Capture Kickoff Meeting

As a Tacoma Water employee, you are given access to substantial information regarding Tacoma Water's business operations and the mers. Your knowledge and experience is of enormous value to us as we may be a regarding direction, retention and needs of our organization.

Goal:

To capture relevant job tasks & knowledge for you have a not that can be assimilated into a comprehensive resource guide will focus on the characteristic tasks that your position does. This guide will be stored in a centralized SharePoint location for all Tacoma Water employees. The project will also capture other tasks that you do at a high level employees improvement projects that could be completed in the future

Questionnaire:

Name and Current Job Title:

- How long have you been in your current role;
- 2. From your perspective, how accurate is your position description form where to the work you do?

TACOMA DUBLIC UTILITIES

Tango

Tacoma Water

Title: DRAFT Procedure Title

Purpose: Starting with an action word, describe w acronyms and shorthand. This field will automatic SharePoint.

Number: Tracking Number – Assigned by the Knowledge Management Team Owner: Bateman, Rebecca Date Last Reviewed: 8/4/2023 Knowledge Capture



The Tools

e

loes. Spell out all

smartsheet







Construction Inspect



Engineering Technician

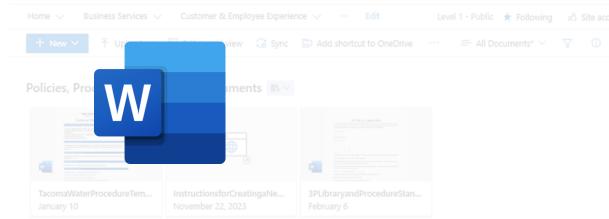


Financial Assistant

nation Technology Analyst

Information Technology Supervisor

TACOMA DUBLIC UTILITIES



Knowledge Capture Dashboard



🕓 Dashboard – Knowledge Capture Project Tracking 🕁
Project Contacts Knowledge Survey Resources Workforce Development Initiative Resources Project Manager Image: Contacts Image: Contacts Project Manager Image: Contacts Image: Contacts Knowledge Capture Survey Image: Contacts Image: Contacts Knowledge Transfer Survey Results Image: Contacts Image: Contacts Image: Contacts Image: Contact



People are constantly onboarding and off boarding so the active count may not match this number.

At Risk Tasks						Project Milestones									
At Risk	Task Name	Status	Assigned To	Start Date	End Date	% Complete	At Risk	Task Name	Status	End Date		Jul Jul 3 Jul 10 Jul 17			Jul 24
								Round 1: Send SmartSheet Form to 12 individuals regarding tasks they do	Complete	07/05/22					Form to 12 inc
								Round 2: Send SmartSheet Form to 33 individuals regarding tasks they do	Complete	11/28/22					

Knowledge Capture Questionnaire

Knowledge Development Questionnaire Knowledge Capture Kickoff Meeting



As a Tacoma Water employee, you are given access to substantial information regarding Tacoma Water's business operations and customers. Your knowledge and experience is of enormous value to us as we make decisions regarding direction, retention and needs of our organization.

Goal:

To capture relevant job tasks & knowledge for your position that can be assimilated into a comprehensive resource guide will focus on the critical tasks that your position does. This guide will be stored in a centralized SharePoint location for all Tacoma Water employees. The project will also capture other tasks that you do at a high level and any potential process improvement projects that could be completed in the future.

Questionnaire:

Name and Current Job Title:

- 1. How long have you been in your current role?
- 2. From your perspective, how accurate is your position description form when compared to the work you do?
 - What are you known for? What are you the "go to" person for (e.g. customer complaints, Purchasing, business processes, resolving SAP issues, etc.)?
 - 4. What do only you know how to do (unique areas of expertise)?
 - When you are away (i.e. on vacation) what doesn't get done? Why don't these tasks get completed (no one else knows how, not urgent, too time consuming, etc.)
 - In terms of priority, what are the top 5 7 things you do in your position (this should include tasks you are known for that may not fall within your current job description)?
 - Who (people / departments) do you interface with frequently in your position (e.g. customers, other agency contacts, etc.)? Please provide as much information as

Knowledge Development Questionnaire Knowledge Capture Kickoff Meeting

possible particularly for external contacts (company, contact name, title, phone number, email address, website, what you use them for, etc.). For internal city contacts you may just provide their name and what you use them for.

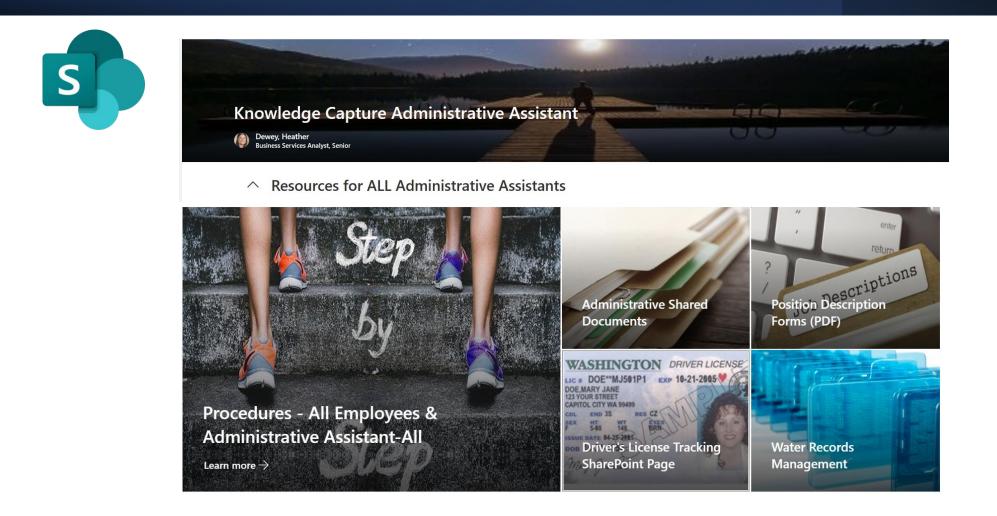
- 8. Who is your end customer (internal/external/both)?
- <u>In order to</u> effectively capture the key aspects of your job, is there anyone we should consider engaging in the knowledge capture process? Perhaps someone else who has in depth knowledge of your job responsibilities?
- What knowledge or skills are most critical for the effective performance of your job (technical, <u>analytical</u> or managerial)?
- 11. What are the top 5 recurring issues / challenges you see throughout your area or in carrying out your own duties?
- 12. Is there currently a central repository for documents that you review, create, or modify (including current policies, processes procedures and location)?
- What software or equipment do you use to complete your tasks (Outlook, SharePoint, SAP, etc.)?
- 14. Are there specific governing policies or regulations that are important to your position? What are they? Where do you locate these (reference to WAC or links would be great here)?
- 15. During your time in this position, have there been any major shifts in the work performed or events that have occurred that we should consider documenting for historical purposes (customer requests, business decisions, policies, etc.)?
- Are there any logistics or location requirements for completing your tasks? (<u>conference</u> rooms, pipelines, field offices, etc.)
- 17. What Types of records are you responsible for (hiring, regulatory reports, payroll, project etc.), where are these stored (SharePoint, network, OneDrive, somewhere else)?
- What type of training is required/desired for this position (in addition to City of Tacoma/Tacoma Water required classes)? Where do you get that training (onlineprovide site, in person – where)?





- If procedures exist for your role, where are they currently stored? Please provide link with location(s)
- 20. What SharePoint sites or websites do you use for your role (please provide links)?

Knowledge Capture: Administrative Assistant



Knowledge Capture: Administrative Assistant



∧ 50118070-Business Services





Policy, Process & Procedure - Position &

Section Specific, & All Employees



Recurring Meetings



Required Knowledge & Technology



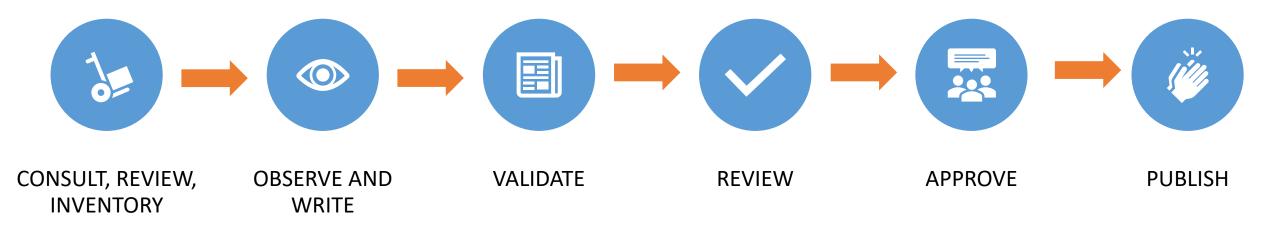
Required Training

Important Contacts

Job Priorities

Timekeeping
 Contract and Software Renewals
 Meeting Support
 New Hire Interviews and Onboarding
 Training Rep
 Travel, reimbursements, PRs, pcards
 General and misc. Admin support including mail sorting
 Records Management

Procedure Writing: The Method



Procedure Writing: The Project Plan

0 . . <i>i</i>	At Risk	Priority	Task Name	Type of Request	SAP Position Number(s)	Proce No.	Status	% Co	N of Pr	Next Step Assign	ned To
149	F		WFM & Payroll Administrator (Charelle)	Knowledge Cap	50008214			0%	10	Priority from Jennifer to do Charelle's procedures. Dependent on Charelle completing Tangos during January focus-time, plan to support and complete procedures in Feburary 2024	
161	P		Water Capital and Developer Planning Support Procedures	Ĩ			Not Starter	0%	6	Kickoff meeting 3/4	
169	-		Safety Office		All		In Progres	46%	13		
183	-		Utility Service Specialist (Chris Hicks)	Knowledge Cap	50076182		Not Starter	0%	6	Q3/Q4 - 1 hr/week	
190	-		+ CIC0	TW Goal	N/A		On Hold	89%	96	May reprise as "SAP Now!" project, since it has all the same names	
287			Operations Manager (Scott)	Knowledge Cap	50092738		On Hold	0%	10		
298			3P Library		Employees		On Hold	20%	5	Ongoing	
304			• UFOs				On Hold	50%	1		
306	P	OP	Business Writer	Operational	50138503			0%	9		
316		BL	 Natural Resource Specialist (NRS) 	Knowledge Cap	50075281		On Hold	37%	13	OK to hold	
330	-	BL	Water Service Mechanic (WSM)	Knowledge Cap	50004522		On Hold	66%	13		
344			Water Service Worker (WSW)	Knowledge Cap	WSW - All		On Hold	2%		OK to hold - likely to be reprioritized as high priority in Q1 2024	
377		BL	 C&D Utility Services Representative 	Knowledge Cap	50079287		On Hold	19%	15	Pulled documentation from CIC0 Project (that didn't use CIC0)	
393			E&IC Call-Out Response	EX Intake			On Hold	0%		On hold until SME describes future work	
395	-	BL	Financial Assistant - M&C	Knowledge Cap	50079293		On Hold	67%		Reach out to Joline Gibson "for your awareness, we had this body of work going, understand with the turnover we have other priorities right now, let us know when you have someone on board that can pick this back up."	
484	×	BL	Water Treatment Plant Operator		50069829		On Hold	25%		parts may get updated through the OIT program (a Aaron reviews it); additional resources may need to moved over	
459 11 2		BL	 Senior IT Analyst 	Knowledge Cap	50071270	see OneN	On Hold	0%		GIS team is understaffed, Joe Albert does not have capacity to do this work at this time. Documenting j	leet

Procedure Writing: Procedure Template

TACOMA DUBLIC UTILITIES

Tacoma Water Procedure

Title: DRAFT Procedure Title

Purpose: Starting with an action word, describe what this procedure does. Spell out all acronyms and shorthand. This field will automatically update the Purpose metadata in SharePoint. Number: Tracking Number – Assigned by the Knowledge Management Team Owner: Bateman, Rebecca Date Last Reviewed: 8/4/2023

Preparation Instructions

Instructions for anything needed to be completed before beginning the procedure, including assembling PPE, gathering materials, and required access to computer systems.

Step-by-Step Instructions

Instructions for how to complete the procedure. Font should be Arial size 12. List format should be 1. a. *i*.

Post Instructions

Instructions for next steps after completing this procedure.

Additional Resources

Related Policies, Processes, and/or Procedures:

Linked to Internal Sites, Pages, or Libraries:

External references, forms, or webpages:

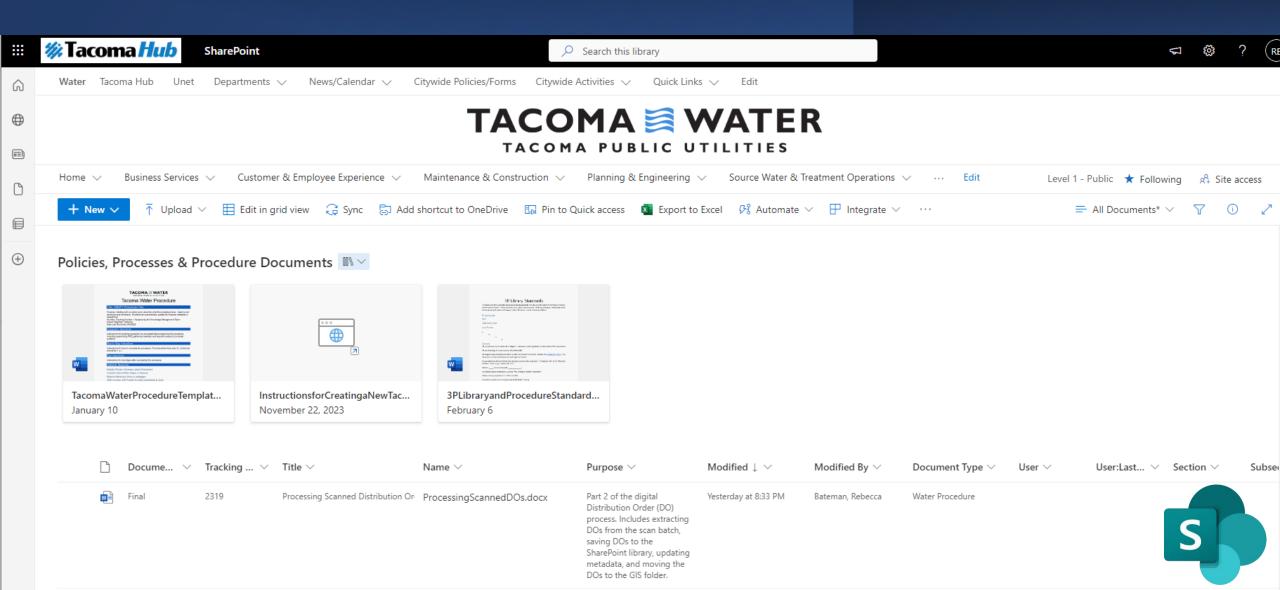
SME Contacts, SAP Position Number is preferable to name:

Revision Log

Revision Date: Revision Description:



Procedure Writing: SharePoint Library



In Closing



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Rebecca Bateman <u>RBateman@cityoftacoma.org</u>

Appendix

Resources and References:

- <u>ARMA</u>
- Enterprise Knowledge (enterprise-knowledge.com)
- <u>Knowledge Transfer Plan (weisman.consulting)</u>
- Tacit knowledge: understood without being expressed directly; knowledge that you do not get from being taught, or from books, but get from personal experience.
- Implicit knowledge: suggested but not communicated directly; easy to articulate, but not formally captured, gained through understanding and experience. Usually gained through experience and understanding of a specific topic. Can be shared by being around the thing you are learning
- Explicit knowledge: knowledge that can be expressed in words, numbers, and symbols stored in books, computers, etc. It can be articulated and easily communicated between individuals and across organizations.
- Knowledge "Knowledge is a fluid mix of framed experience, values, contextual information, and expert insight that
 provides a framework for evaluating and incorporating new experiences and information. It originates and is applied in
 the minds of knowers. In organizations, it often becomes embedded not only in documents, repositories, but also in
 organizational routines, processes, practices, and norms." Davenport, Tom and Prusak, Laurence. Working Knowledge.
 Harvard Business Review Press, 2000.
- Knowledge Management (as defined by ARMA): The strategies and processes designed to identify, capture, structure, value, leverage, and share an organization's intellectual asset to enhance its performance and competitiveness.