John Caldwell

Vice President Business Banking





FOUNDED

In 1943

HEADQUARTERS

St. Paul, MN

BRANCH NETWORK

MN, ND, WI

OUR PURPOSE

Cultivating thriving Communities

At Bremer, we believe that together banking and commerce can help communities thrive.

OUR VALUES

Collaboration

We work elbow to elbow with our customers, making a difference for them however we can. We share our skills, knowledge and experience to support each other every day.

Commitment

We're deeply invested in the places we live and work, and we're always ready to find ways to help our neighbors and communities thrive and grow

Creativity

Imagination and innovation are essential to our customers' success and our own. If there's a better way to do something, we'll find or create it.



Capturing Tribal Knowledge

Manufactures Alliance
Manufacture of the Year Awards
Breakout Session
September 29th, 2021

Helen Swanson

Director of Quality and Continuous Improvement – Sportech LLC, Elk River, MN

20+ years of experience as a quality and lean professional. She has held Quality and Continuous Improvement Management positions in a number of industries including aerospace, medical, defense and consumer products. Helen has spent her career developing Integrated Management Systems that fit the needs and culture of individual companies focusing on strong Strategic Planning, Process Focus and Lean Principles.

Helen is a certified Six Sigma Green Belt, Lean Practitioner, ISO9001 Lead Auditor and holds a degree in Chemical Engineering from the University of Minnesota.

Empty Nester WHAT NOW!!!!





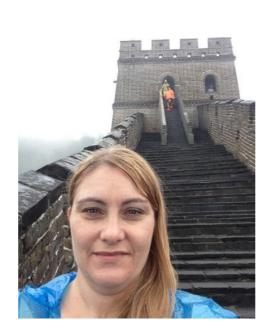
















What is Tribal Knowledge?



What is Tribal Knowledge?

- Any information that is not widely known by other employees within a company
- Unique information that only a few, or one, person knows and is critical to the success of the business.
- Information considered to be common sense
 - "common sense is not so common" Voltaire
- "the collective wisdom of the organization. It is the sum of all the knowledge and capabilities of all the people." Leonard Bertain '<u>The Tribal</u> <u>Knowledge Paradigm</u>'
- UNWRITTEN, UNSHARED, GAINED THROUGH EXPERIENCE OR ORAL TRADITION.

What is Tribal Knowledge?

Explicit Knowledge*

 Explicit or tangible knowledge is the concrete information that comprises essential information and data. Things like standardized procedures and safety protocols are documented by necessity and are crucial to operations. This knowledge is easy to store and pass between people because it exists in the form of documents, records, or reports.

Implicit Knowledge*

• Implicit or intangible knowledge includes personal stories, skills, and intuition-based learnings that are accrued through experience, in-person training, or mentorship. This type of knowledge is more difficult to communicate and often remains siloed or lost. A bulk of tribal knowledge falls in this group.

Life without Implicit Knowledge...



Why is Capturing Tribal Knowledge Important?

- "Turnover Tsunami"
 - Forbes 4.27.21

Job openings continue increase

Sept 8 Job Opening and Labor Turnover Summa

Unemployment rates continue to decrease

National Conference of State Legislatures

23% of the Labor force is +55 and growing

US Bureau of Labor Statis



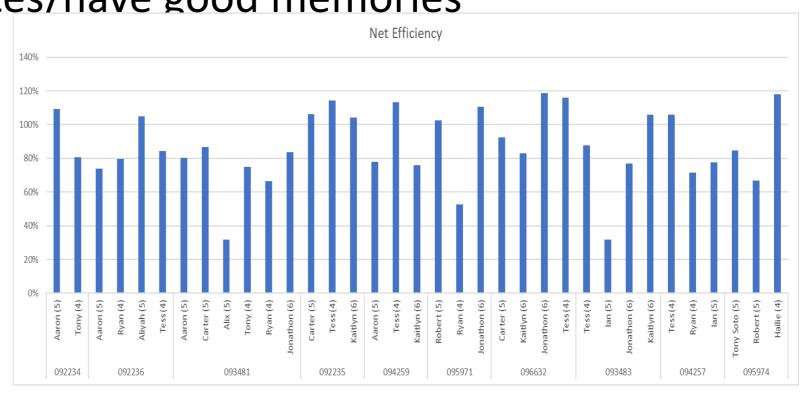
Labor Force Share, by Age Group, 1999, 2009,

2019, and Projected 2029



Why is Capturing Tribal Knowledge Important?

- Losing important information forever.
 - Q: "Why do we do it that way:
 - A: "It's the way we have always done it"
- Lengthy training process for new employees.
 - A situation must occur to learn what to do about it
 - New employees must take good notes/have good memories
- Loss of Productivity
 - "Make it Work"
- Inconsistent Result
 - Employee Dependent



How does Tribal Knowledge Happen?

Growth

- In small Entrepreneurial companies everyone is close enough to the information the knowledge is considered "common".
- As a company grows there is no more common knowledge, only the original "tribe" has the knowledge.

Fear or Power

- Someone or something can take over the job.
- Feels safe knowing they are indispensable.

Nobody Asked

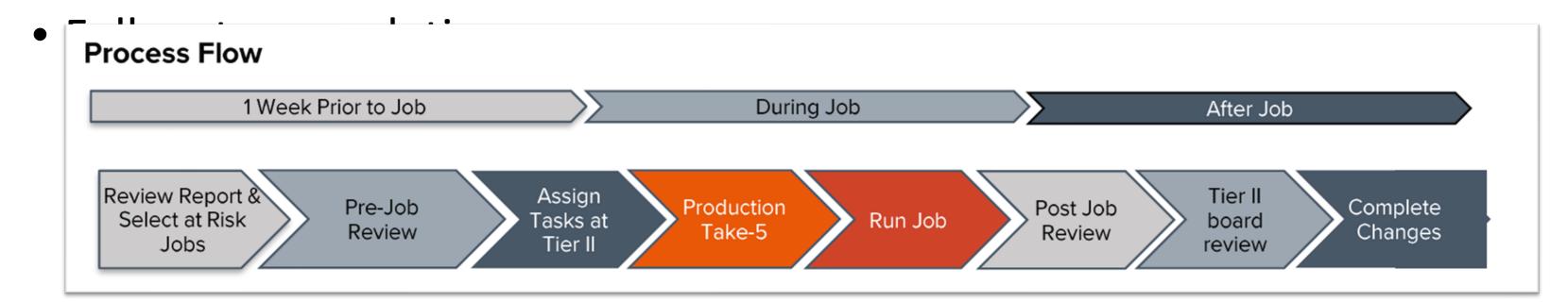
- Don't ask/ Don't tell
- Assumes everyone knows the information

Where to start?

- Develop your WHY
 - Make sure everyone understands why it is important to capture the tribal knowledge.
 - Metrics
 - Stories
- Identify the Knowledge Holder(s)
 - Develop a relationship at a personal level
 - Find out their aspirations for the future
 - Understand what the knowledge means to them
 - Create a safe space
 - Acknowledge all the good things that have been done to date
 - Provide incentive to share the knowledge
 - Coaching/Mentoring Opportunities
 - Career advancement
 - Retirement Planning

Make it a Process

- Include the Knowledge Holder in developing the process
- Identify and involve change agents to work with the Knowledge Holder
- Map a process for how, when, where and who will collect and document the process
- Determine how priorities will be set



Make it a Process - Considerations

- Is the Tribal Knowledge useful?
- Is the Tribal Knowledge correct/safe?
- Is the Tribal Knowledge preventing us from making improvements?
- Handle with CARE!
 - Carefully Review
 - Allow for growth and improvement
 - Respect the Knowledge Holder
 - **E**xecute

Make it Easy

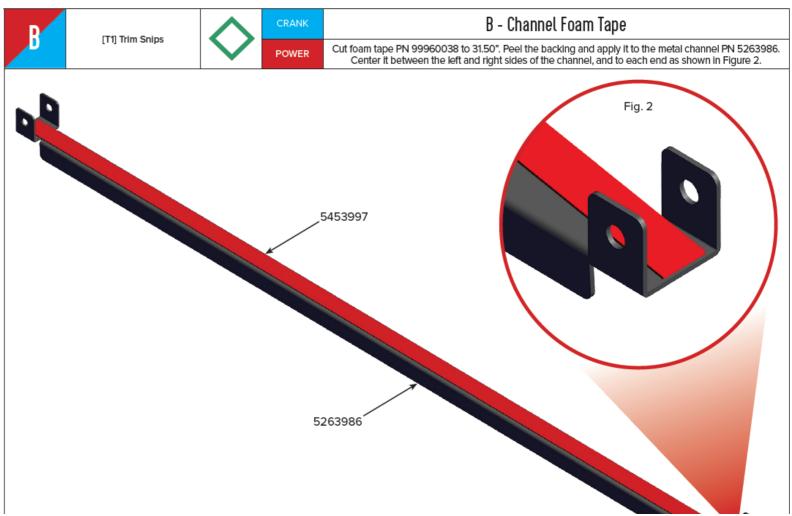
- Clear Signals
- Easy to follow checklist
- Provide resources
 - Designated Note Taker/Tech Writer
 - GoPro/phone (policy?)
 - Software
 - Dozuke
 - VKS

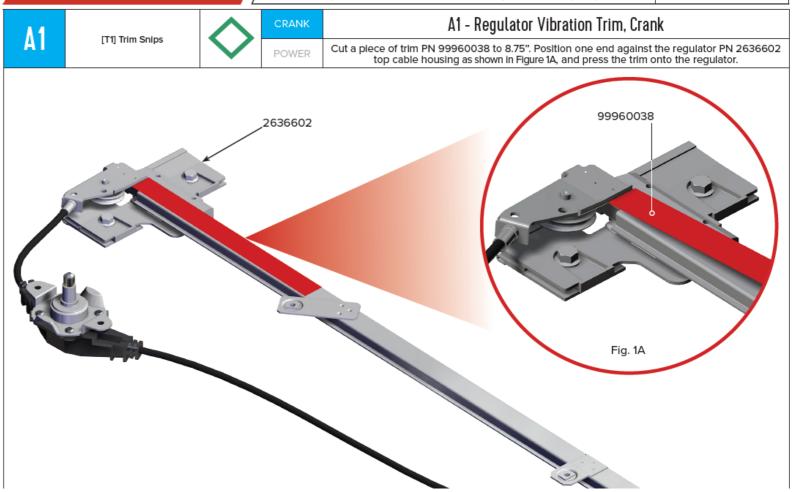
PRE-JOB REVIEW					
Historical Productivity	Historica	l Quality			
Requirement		Not Attached in Epicor	Needed or Update Needed	Action Assigned	
Set-up Sheets (if applicable)					
Updates Needed:					
Production Guide	_Old				
Updates Needed:	POST JOB REVIE	w			
	Job#	_ Shift	Cell# _		
Traveler/Method	Team Was the job run without safety incident? Yes / No				
Updates Needed:	□ Safety Incident submitted				
	Were there any quality issues during the job? Yes / No Disposition? Scrap / Rework				
Control Plan (Check Sheets require updates)	Describe quality issue.				
Updates Needed:	Ware the fixtures on	the Method D	advetion C	.idood2 V	an / No
	Were the fixtures on the Method/Production Guide used? Yes / No If not, why & what was used in its place?				
Operator Standard Work		mat mas assa	iii tto piace i		
Updates Needed:	Did the Production Guide and Traveler match the process that was following during the job? Yes / No				
	If not, what wa	s different			
Line/Cell Layout					
Updates Needed:	Were any redlines made to the Production Guides? Yes / No				
	☐ If Yes, submit redline changes. — Did the job use a subassembly? Yes / No				
Fixtures	If so, was there a subassembly Part Number? Yes / No				
Updates Needed:	Were changes made to the Machine Settings during the run? Yes / No				
	If so, has the Change Log been reviewed? Yes / No / NA				
	Does the Setup Sheet need updates? Yes / No Updates Needed:				
	Did the job run at standard? Yes / No				
	If yes, how did you achieve standard?				
	If not, is the standard achievable? Yes / No Explain				

Make it Easy - Considerations

- Multi-lingual users
 - Limit the text
 - Use photos and illustrations
 - Use Video
 - Provide Translations
- How much is too much?
 - Enough to do the job, not so much to be cumbersome.
 - Trail and Error
 - Test on someone outside the department
 - 15 min training blocks







Make it Visible

- Put planned, in-process and completed items in a visible location.
- Highlight key personnel on each one
- Encourage Leadership to review progress.
 - Acknowledge
 - Encourage
 - Congratulate



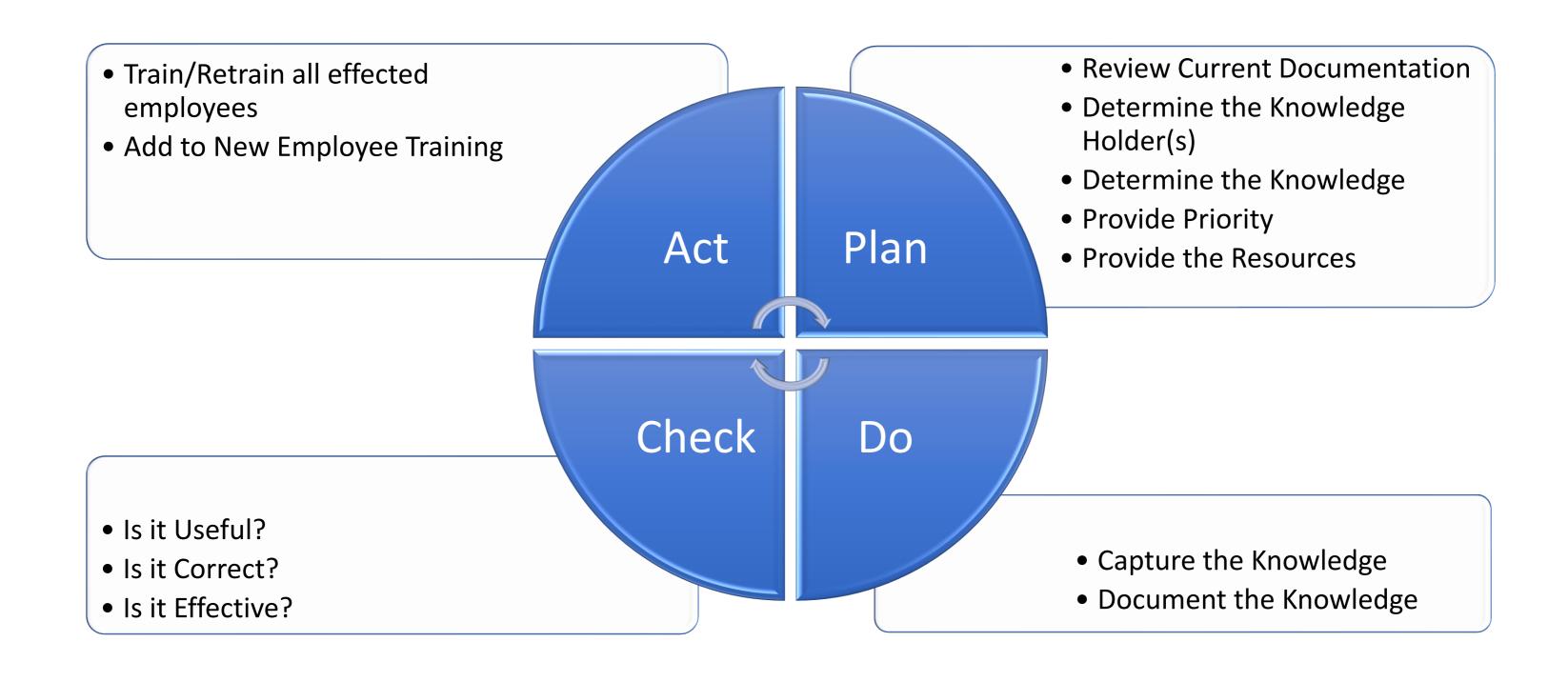
Celebrate the wins

- Share progress widely and celebrate milestone along the way.
- Provide incentive as appropriate to team members.
 - Food
 - Gift Cards
 - Leadership Acknowledgement

Maintain the Knowledge

- Build regular reviews of the information to maintain knowledge.
- Make it a daily process.

Close the Loop (PDCA)



Putting it all together

- Develop your WHY
- OMME THE TIME! Identify the Knowledge Holder(s)
- Create a Process
- Make it Easy
- Make it Visible
- Celebrate th
- Maintain the Knowledge