Licensing Operators and Succession Planning	
Electioning operators and succession mainting	
. Car	
5 5 5	
Introduce Yourself	
• Name	-
• Where are you from?	
Where do you work?	
What kind of system do you operate?	
A shareable fun fact or interest	
The Certified	
Operator	
 Working in the water and wastewater industry can be extremely rewarding as you will be providing a critical service to your 	
community	
 It just might be one of the most important positions in the world since no one can live without water 	
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The Certified Operator	
The sertified operator	
Wastewater and drinking water system operators are front-	
line environmental professionals who ensure the quality of	
Kentucky's water resources and protect the public's health	
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Certified Operator	
A person who has on site <u>responsibility and authority</u> to conduct the procedures and practices necessary to <u>ensure</u> that the water supply system or a portion is operated <u>in accordance with the laws and administrative regulations of the Commonwealth</u>	
system or a portion is operated <u>in accordance with the laws and</u> <u>administrative regulations of the Commonwealth</u>	
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The Certified Operator	
Орегатог	
Only operators that are certified by the Kentucky	
Certification and Licensing Branch can be in responsible charge of a wastewater or drinking water system	
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Wastewater System		
classifications, Education and		
Experience Requirements		
System Classifications WWT		
Class WWT plant with a design capacity of ≤50,000 GPD shall be under the primary responsibility of a certified operator holding an active Class I,		
II, III or IV WW Treatment certificate.		
Class WWT plant with a design capacity of 50,001 to ≤ 2,000,000 GPD shall be under the primary responsibility of a certified operator holding an active Class II, III or IV WW Treatment		
certificate.		
System Classifications		
Class WWT plant with a design capacity of 2,000,001 to ≤ 7,500,000 GPD shall be under the primary responsibility of a certified operator holding an		
active Class III or IV WW Treatment certificate.		
Class IV WWT plant with a design capacity of ≥ 7,500,001 GPD shall be under the primary responsibility of a certified operator holding an active Class IV WW Treatment certificate.		

Class II Class II Class II Class II Class III Clas				
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Class II collection system that transports wastewater to a treatment plant with a delayer capacity of \$5,000 to \$1,000,000 GPD shall be under the primary received to a treatment plant with a delayer capacity of \$2,000,000 GPD shall be under the primary received to a treatment plant with a delayer capacity of \$2,000,000 GPD shall be under to the collection certificate. Class III Collection system that transports wastewater to a treatment plant with a delayer capacity of \$2,000,000 GPD shall be under under the primary received to a treatment plant with a delayer capacity of \$2,000,000 GPD shall be under under the primary requesting of the careful capacity of \$2,000,000 GPD shall be under the primary requesting of a certified operate holding an active Class IV collection certificate. Class IV Collection system that transports wastewater to a treatment plant with a delayer packed by \$2,000,000 GPD shall be under the primary respectively of a certified operate holding an active Class IV collection certificate. KISOP (formerlyKIMOP) Permit * Next the primary respectively of the careful operate holding an active Class IV collection certificate. * This permit is appropriate for municipalities, other publishy owered collection systems, and private collection owered by snottler parts (collection owered by snottler parts). * Kentucky littler-System Operational Permit (152 to a Operational Permit		shall be under the primary responsibility of a certified	_	
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Operational Permit. This permit is not a substitute for	revision	n of the former Kentucky InterMunicipal		 <u></u>
	Operat	ional Permit. This permit is not a substitute for	-	

	(formerlyKIMOP) Permit			
Class I	Collection system with a population served of ≤ 1,500 individuals shall be operated by a certified operator holding an active Class I, II, III or IV collection certificate.			
Class II	Collection system with a population served of 1,501 to ≤ 15,000 individuals shall be operated			
	by a certified operator holding an active Class II, III or IV collection certificate.	_		
KISOP ((formerlyKIMOP) Permit	-		
Class III	Collection system with a population served of 15,001 to ≤ 50,000 individuals shall be operated by a certified operator holding an active Class III or IV collection certificate.			
Class IV	Collection system with a population served of ≥ 50,001 individuals shall be operated by a certified operator holding an active Class IV collection certificate.			
KISOP ((formerlyKIMOP) Permit	\neg		
Class III	Collection system with a population served of 15,001 to ≤ 50,000 individuals shall be operated by a certified operator holding an active Class III or IV collection certificate.			

Drinking Water System Classifications Education and Experience Requirements	
Facility Classifications	
 Class I - AD <50,000 GPD* Class II - A 50,000 to < 500,000 GPD* Class III - A 500,000 to < 3,000,000 GPD* Class IV - A >3,000,000 GPD* *design capacity 	
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Class I-AD High School Diploma or GED and One (1) year of acceptable operation of a Subclass A public water system with any design capacity shall be required.	

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Class II-A	
 High School Diploma or GED and Two (2) years of acceptable operation of a water treatment plant with Six (6) months in a Class IIA, IIIA or IVA water treatment plant shall be required. 	
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Class III-A	
 High School Diploma or GED and Three (3) years of acceptable operation of a water treatment plant with One (1) year of that experience in a Class IIA, IIIA or IVA water treatment plant shall be required. 	
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Class IV-A	
 Baccalaureate degree in engineering, science or equivalent is required and One (1) year of acceptable operation of a Class IIIA or IVA public water treatment plant shall be required. 	

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D	istrib	ution System Classifications		
respon		500 population served shall be under the primary f a certified operator holding an active Class I, II, III or IV rtificate		
primar	y respon	00 to < 15,000 population served shall be under the sibility of a certified operator holding an active Class II, ution certificate		
D	istrihi	ution System Classifications		
D	150116	ation system classifications		
CLASS	45	000 to 150 000 and believe and shall be used at the		
primar	y respon	,000 to < 50,000 population served shall be under the sibility of a certified operator holding an active Class III on certificate		
CLASS respon certific	sibility o	50,000 population served shall be under the primary fa certified operator holding an active IV Distribution		
certific	ale			
			_	
	DI-4	Education and Experience		
		·		
	Class I	High School Diploma or GED <u>and</u> One (1) year of acceptable operation of a water distribution system shall be required.		
	Class II	High School Diploma or GED <u>and</u> Two (2) years of acceptable operation of a water distribution system shall be required with Six (6) months in a water distribution system serving a population ≥ 1,500.		
	Class III	High School Diploma or GED <u>and</u> Three (3) years of acceptable operation of a water distribution system with One (1) year of that experience in a		
	Class IV	water distribution system serving a population ≥ 1,500. Baccalaureate degree in engineering, science or equivalent is required		
	Class IV	and One (1) year of acceptable operation of a water distribution system serving a population ≥ 15,000.		

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Operator-In-Training (OIT)	
 Designation expanded to all certification 	
levels	
 Same type of certification and one level greater than the current certification 	
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Operator-In-Training (OIT)	
The applicant must submit a letter from a qualified mentor	
 Commitment to oversee applicant's work Commitment to mentor the applicant as long as 	
 applicant is under his direct responsible charge Verify mentor is not currently mentoring 	
Confirm the mentor has a license greater than or equal to certification level of the OIT	
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Operator-In-Training (OIT)	
Mentors will not be held accountable	
for the actions of the OIT; unless the mentor instructed the OIT to violate the	
requirements in 11:020.	

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Renewal and Continuing Education	
Wastewater and Collection License	
Renewal > Wastewater operators must renew their license by June 30th of each odd-numbered year	
➤ Applications are accepted starting January 1 st of each odd year.	
\$50.00 for the online process at www.dca.ky.gov	
\$100.00 for the paper application process	
Failure to renew by June 30 th of an	
odd numbered year	
The operator's license expires and he/she shall not be in primary responsible	
charge of a facility	

	-
Wastewater and Collection License Renewal	
➤ Operators have until the end of the	
calendar year to get their license in "active" status. The renewal and late	
fees total \$300.00 online or \$350.00 hard copy	
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Wastewater and Collections License Renewal	
▶If the license has not been renewed,	
the operator's license will be terminated at the end of this grace period	
➤ December 31st of odd year	
➤ The operator must then re-test to obtain a wastewater certification	
Renewal Distribution and	
Water Treatment	
 Renew between January 1 and June 30th of even numbered years 	
• Continuing adjustion hours must have been	
 Continuing education hours must have been earned in renewal period 	
 Certificates terminate if not renewed by 	
December 31	

Distribution	and Water
Treatment	

Certification School & Exam	\$190
Renewal Fees (online)	\$ 50
Renewal Fees (hard copy)	\$100
Late Fees	\$250
Reciprocity	\$500

Kontricty's operators are now able to ensw their indress on-line! As long as you have earned sufficient continuing ducation creat hours, you can ensw your conflictable hower earned sufficient controlling ducation creat hours, you can ensw your conflictable hower in just minutes. This new process eliminates the hassle of completing renewal forms and completing the easy to use on-line process, your new wallet can'd will be mailed to you.

To complete your renewal on-line go to www.dca.kv.gov/certification and follow the link to "e-search"

- and rollow these easy steps to remove, on-line

 1. Enter your agency interest number, license number or last name in the box on the license e-search page. "Click" on the search button

 2. When the License Search Results are listed, find your license and click on "Licensee Details" link in the first box of the table.

- correct. If any information is not correct all DCA at (800) 926-9131.

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Continuing Education Hours

- > Continuing education credit must be earned after initial certification
- >CEU credit is not given for individuals attending a certification school, if they don't currently hold an active certification in that program area



1	1

Continuing Education Hours	
➤ CEU hours are valid for 2 years from the date	
earned	
CEU hours can be viewed online at www.dca.ky.gov	
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Important Links	
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DCA.KY.GOV	



Staffing Requirements

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Operation of wastewater systems by certified operators

Section 3. Certified Operator Availability.

- (1) The facility shall ensure that a certified operator with primary responsibility shall be able to be contacted by phone within thirty (30) minutes.
- (2) The facility shall ensure that a certified operator with primary responsibility shall be capable of being onsite:
- (a) Within two (2) hours if the certified operator with primary responsibility is required to have a Class I or Limited certificate; or
- (b) Within one (1) hour if the certified operator with primary responsibility is required to have a Class II, III, or IV certificate.

401 KAR 8:030

Water treatment plant and water distribution system classification and staffing

Staffing requirements

(a) Water distribution systems

A water distribution system shall be operated by or under the supervision of a distribution system operator certified in a class equal to or higher than the class of the distribution system

401 KAR 8:030

Water treatment plant and water distribution system classification and staffing

Staffing requirements

(b) Combination water treatment plants and water distribution systems.

- A combination water treatment plant or water distribution system shall be classified as Class IA-D, Class IB-D, IIB-D.
- A system classified as a combination system in subparagraph 1. of this paragraph shall be operated by or under the supervision of an operator who holds a valid combination or separate water treatment and distribution system operator certificate of the appropriate class or higher and who shall be in direct responsible charge of the system.
- A certified operator of a Class IA-D combination system shall be at the water treatment plant if water is being treated, unless the operator is performing other system-related duties. (c) Water treatment plants.

401 KAR 8:030

Water treatment plant and water distribution system classification and staffing

Staffing requirements

Class IIA.

Class IIA.

a. Except as provided in subparagraph b. of this paragraph, if water is being treated, a Class IIA water treatment plant shall be operated by a certified water treatment plant or performing system-related duties operator who holds a valid certificate in a class equal to or higher than Class IIA who shall be in direct responsible charge of the plant and shall be present at the water treatment plant. b. A Class IIA water treatment plant that treats water during more than one (1) shift per day may employ a Class IA-D certified operator for one (1) shift per day, other than the shift worked by the Class IIA operator in direct responsible charge, so long as the Class IIA operator in direct responsible charge shall be able to respond on site within thirty (30) minutes

401 KAR 8:030

Water treatment plant and water distribution system classification and staffing

Staffing requirements

Class IIIA.

Except as provided in subparagraph b. of this paragraph, if water is being treated, a Class IIIA water treatment plant or performing system-related duties shall be operated by a certified water treatment plant operator who holds a valid certificate in a class equal to or higher 8:030 2 than Class IIIA who shall be in direct responsible charge of the plant and shall be present at the water treatment plant

	•
401 KAR 8:030 Water treatment plant and water distribution	
system classification and staffing	
Staffing requirements	
A Class IIIA water treatment plant that treats water during more than one (1) shift per day may employ a Class IIA operator for one (1) shift	
per day, other than the shift worked by the Class IIIA operator in direct responsible charge, so long as the Class IIIA operator in direct	
responsible charge shall be able to respond on site within thirty (30) minutes	
	1
401 KAR 8:030 Water treatment plant and water distribution	
system classification and staffing	
Staffing requirements	
Class IIIB. a Class IIIB water treatment plant shall be operated by or	
under the supervision of a certified water treatment plant operator who holds a valid certificate in a class equal to or higher than Class IIIB and who shall be in direct responsible charge of the system	
• • • • • • • • • • • • • • • • • • • •	
	-
401 KAR 8:030	
Water treatment plant and water distribution system classification and staffing	-
Staffing requirements	-
Class IVA	
 a. Except as provided in subparagraph b, of this paragraph, if water is being treated, a Class IVA water treatment plant or performing system- 	
related duties shall be operated by a certified water treatment plant operator who holds a valid Class IVA certificate who shall be in direct	
responsible charge of the plant and who shall be present at the water treatment plant	

401 KAR 8:030 Water treatment plant and water distribution system classification and staffing Staffing requirements	
Class IVA	
b. A Class IVA water treatment plant that treats water during more than one (1) shift per day may employ a Class IIIA operator for one (1) shift per day, other than the shift worked by the Class IVA operator in direct responsible charge, so long as the Class IVA operator in direct responsible charge shall be able to respond on site within thirty (30) minutes	
401 KAR 8:030 Water treatment plant and water distribution	
system classification and staffing	
Staffing requirements	
Class IVB	· ·
0.000 11.0	
A Class IVB water treatment plant shall be operated by or under the supervision of a certified water treatment plant operator who holds a valid certificate in a class equal to or higher than Class IVB who is in direct responsible charge of the system	
401 KAR 8:030	
Water treatment plant and water distribution	·
system classification and staffing	
A public water system may propose an alternate staffing plan to the staffing requirement established in this paragraph	
The proposal shall be submitted to the cabinet and shall thoroughly explain the alternate proposal	
 The proposal shall demonstrate: (i) A necessity for the water system to vary from the requirement in this paragraph; and (ii) An equal level of protection of human health and the environment 	
c. The cabinet shall not approve an alternate proposal that does not propose that a duly certified operator in direct responsible charge operate a water treatment plant, in accordance with KRS 223.210.	

401 KAR 8:030
Water treatment plant and water distribution
system classification and staffing

Staffing Requirements

Bottled Water Systems

A bottled water treatment plant shall be operated by or under the supervision of a certified water treatment plant operator who holds a valid bottled water certification and who shall be in direct responsible charge of the system





401 KAR 11:020 Standards of professional conduct

A certified operator may be subject to disciplinary action if the Cabinet, in consultation with the board, determines that the operator practiced any of the following:

40	1 KAR	11:020) Stand	lards
of	profes	sional (conduc	:t

- > Fraud or deception in obtaining certification
- > Fraud or deception when collecting samples and/or filing cabinet mandated reports (i.e. DMRs)
- Failure to use reasonable care or judgment in the performance of duties

401 KAR 11:020 Standards of professional conduct

Failure to apply knowledge in the performance of duties (i.e. - if the operator is incompetent, unable, or unwilling to properly perform duties)

401 KAR 11:050 Disciplinary Action

- > Probation of the operator's certification for a specified period of time, not to exceed one (1) year
- ➤ Suspension of the operator's certification for a specified period of time, not to exceed four (4) years, CERTIFICATION IS CONSIDERED VOID

401 KAR 11:050 Disciplinary Action

- > Revocation of the operator's certification
- **≻**Civil or criminal penalties
- >A combination of the disciplinary actions established above

http://www.lrc.ky.gov/kar/titles.htm

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Operator Succession Planning Ageing Operator Population >60% aged +50 years Age Distribution for Licensed Operators

Succession Planning The Emerging Concern



- · Loss of institutional knowledge
- Heavy reliance on on-the-job training (OJT) rather than on formal training and development
- Weak or non-existent Leadership Development Programs
- Complications in bargaining agreements
- Issues of employee retention, such as compensation and lack of advancement

Complexity, Cost, Career transitions

Capture Knowledge Now Strategies and processes designed to identify, capture, structure, value, leverage, and share an organization's intellectual assets to enhance its performance and competitiveness. It is based on two critical activities: (1) capture and documentation of individual explicit and tacit knowledge, and (2) its dissemination within the organization.

Knowledge Loss is A Key Workforce Challenge

- Retaining critical knowledge is key
- Declining number of certified operators
- Lack of information sharing and documentation

Value Of Transferring "Knowledge" And Effective Practices



Knowledge Transfer

Processes and strategies that allow an organization to:

- Document key data and policies for critical work processes
- Exchange key process data and information from one individual or group to another
- Define how vital and important information will be retained within the organization despite attrition

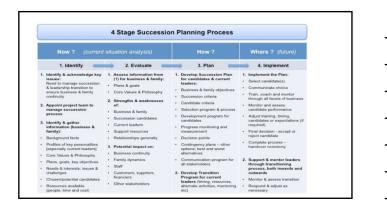
Benefits of Knowledge Transfer

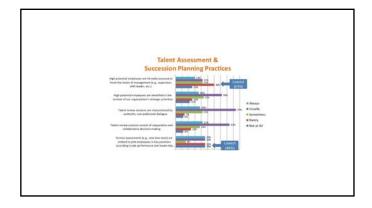
- Employer Ensure a sufficient supply of talent for key roles and tasks.
- \bullet Employee Provide clear opportunity to grow, learn, evolve, advance.
- Customer
 - 1. Results
 - 2. Employees who are reliable, knowledgeable, and meet their expectations.

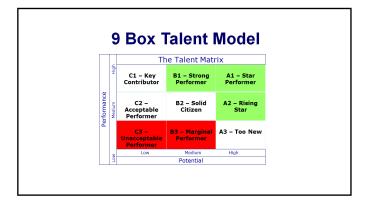
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SUCCESSION RISKS	EXAMPLES FOR COUNTER ACTIONS
Vacancy Risk The risk of key positions being vacant over a longer period of time	Implementation of a name-to-box succession planning (including defined emergency successors and corporate-wide talent pools
Readiness Risk The risk of unprepared successors	Development programs for potential successors
Transition Risk The risk of failure of external successor	Higher success rate through more and better fitting internal candidates
Portfolio Risk The risk of poor deployment of talent against business goals	Deriving the development and succession decisions from business goals

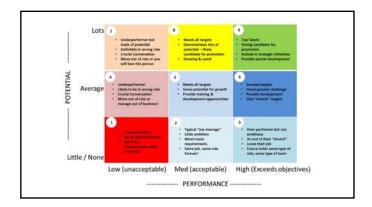
Traditional Succession Planning Ortical Positions Output Assess Positions Assess Positions Assess Development Needs Assess Positions Assess Positions



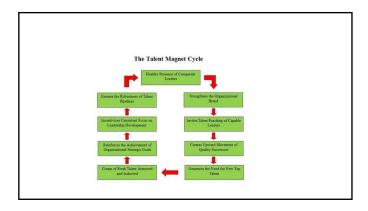
















Succession Planning

 The process of developing a systematic approach to building replacement workers to ensure continuity, by identifying potential successors in *critical* work processes

Succession	Management
------------	------------

• The integrated approach to workforce recruitment, development, and retention to ensure that the organization has candidates whose present and future potential contribute to their individual success and the success of the organization

Developing the Plan

• Basic Steps

- Institutionalize the process and capture stakeholder support
- Conduct assessments of organizational needs
- Develop the succession planning model
- Implement succession planning strategies
- Continuously measure, evaluate, and adapt

Step 2A – "As Is" Assessment

- Collect and analyze organization and demographic data

 - Collect and analyze organization and demographic data Retirements?
 New leaders being developed?
 Are you identifying new leaders?
 What is average age and tenure of current employees?
 What are attrition and vacancy rates?
- Identity and prioritize key work processes/positions
 Which are most critical?
 Which have the least amount of resource depth?
 Which processes are documented?
 Are future leaders prepared?
- Are truture leaders prepared?
 Identify condition and availability of resources and systems
 What items are needed to do work? Maps, policies/procedures, training guides?
 Are they accessible and up to date?
 What technology systems are currently in use?

Step 2B — "To Be" Assessment Analyze future requirements for services Future demand Customer expectations Regulations What are the goals of the Strategic Plan Demand placed by SP How will SP change workforce/leadership requirements What are upcoming changes in the industry? What demands will technology place on organization?	
Step 2C – Gap Analysis	
How does "as is" organization fall short of "to be"?	
Step 3 - Develop the Succession Planning Model	
 Determine which employees or levels of employees will be involved in program. 	
Build leadership pipeline. Identify internal talent with critical competencies (KSAs). Analyze external sources of talent.	
 Identify training and development strategies. Formal professional development. Coaching and mentoring. 	
Use cross training/multi-skilling. Job shadowing. Identify career paths. Disclose retesting startegies.	
 Develop retention strategies. Create knowledge management and transfer strategies. 	

ession Familia Binnert		Bornester Planting Tools
Build a Leadership Pipeline	fraunt the sustainability of organizational leadership	Leadership competency development plan Leadership belief pool development Leadership mentoring
Develop Ortical Function Successors	Mitigate impact of attrition and employee mobility on the utility's critical functions	Please retires consulting Mantaring Appreciated sphiladedowing Auto function partomapos aids
Staff Development and Training	Develop layers of depth to perform organizational functions	Staff development plans Cross-fraining and work volation Job function confidention
Density Retortion Strategies	4. Voreine ability to retain key staff	Updaw and modify compensation and classification system Conserpath planning Cosserbaining and work rotation
Knowledge blanagement and Transfer	Ensure the occessibility of critical organizational knowl- edge despite shalf attrition.	Lipidate and maintain key organizational knowledge reporters Department and codify key processes and functions Export annovaeus Ado function performance side Nonetedge maps and powerful processes

Step 4 - Implement Succession Planning Model

- · Determine resource needs for implementation.
- Identify barriers to implementation.
- Update or develop job descriptions.
- Prepare organization for change.
 Establish communication plan.
 Connect with stakeholders and get their buy in.
 Identify and establish peer and leadership champions of change.
- If needed, implement strategies on pilot basis.
- If needed, implement strategies on
 Link succession strategies with HR.
 Recognition
 Workforce planning
 Assessment strategies
 Recruitment strategies
 Train strategies
- · Train staff as necessary.

Step 5 - Continuous Measurement, Evaluation, and Adaptation

- Define measures of program success
- ${\ }^{\bullet}$ Determine how frequently the program will be evaluated.
- Design the reporting process.
- Track progress, communicate and celebrate program success.
- Get stakeholder feedback on strategy success.
- Adjust or adapt programs based on evaluative results.
- Ensure top management stays engaged and provides support and attention to program.
- Make 3 to 5 year succession plans part of organization's strategic planning process.

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IN ADILEN AENITATIONI	
IMPLEMENTATION	
 Develop pilot program in one department. Track and measure how it's working: Turnover 	-
 Employee survey results Participant satisfaction # Individuals promoted vs. outside hires 	
 # "ready now" candidates Diversity of talent pools Size of talent pools 	
 Communicating Program Share with everyone how it's going. Use multiple methods 	
]
 Costs/Benefits Costs – highly variable and hard to quantify Consultant, in-house time, lost production. Employer Benefits 	
Stabilize performance Ensure continuity of leadership Develops pool of skilled workers Minimizes disruption during change	
Enhances knowledge transfer Makes "employer of choice" – gets you the better workers Employee Loyalty/Commitment Opportunity for skills development/training Increased organizational resiliency/capacity	
Employee Benefits Improves communication and morale Improved effectiveness Improve working relationships	
Personal/Professional growth Customer Benefits Improved staff knowledge More efficient service	
Increased staff responsiveness/pride Better run organization	
Common Pitfalls	
 Reeping it a secret Underestimating talent within 	
 Narrow minded thinking – too old/young, rough, different Focusing exclusively on hard skills 	
 Not offering training/development opportunities Expecting employees to self-identify – help them 	
see what they can be. Not holding managers accountable for succession planning.	
 Considering only upward succession. Lateral? One size fits all program. 	
 Producing too many candidates for too few spots. 	

Pr	ogram Particip	pation
 Recruit and develop recognition. 	bright career minded	individuals who appreciate

recognition.	
 Voluntary opt-in. 	

• Provides self-directed careers.

Leadership Competencies	1	Lead	lers	hip	Com	peter	ncies
-------------------------	---	------	------	-----	-----	-------	-------

- Defines attributes desired.
- What an employee must achieve to show proficiency at each level.
- Effectiveness, communication, ethics, knowledge, developing people, flexibility/adaptability, strategic initiative, effective decision making, customer orientation, achievement orientation, team orientation.

Knowledge Transfer and Retention Strategies

- Document processes and records.
- Hire new person before old one leaves.
- Rehire retirees part time.
- Make videos of people doing work.
- SOPs, standardized record keeping formats, archiving and data retrieval systems.
- \bullet Cross training existing staff.

What's a small organization to do? Create organizational chart. List age, years of service. When do you expect people to leave? Where do you expect to get replacements? If they're abundant and readily available, ok. If not, where will they come from? Need to develop in advance? Recruit for exam? Trade schools, military, minorities?	
	1
Mission Critical • Identify "Mission Critical" positions/tasks.	
 If this skill set, expertise, license, person is suddenly unavailable, we can't function or something really bad can happen. 	
 How many positions/people can perform this task? If only one, "Houston, you have a problem." You need to plan for back up or when they leave. 	
Try to figure out when they <i>plan</i> to leave.You need to develop a plan for that event.	
In the meantime, you still need to provide back up for while they're there.	

	1
Some Possibilities	
• Cross training	
• Multi-skilling	
Retiree/Part timer	
Outside sources of talent	_
Contractors	-
]
Contracting Possibilities?	
• Electrical	
• I&C	
• Payroll	
 Retirees Redundancy, training, transition, sick/vacation. 	
	_
Looking the model (Consulted Loo	
Institutional Knowledge	
 SOPs: Have employees write down how to perform MC tasks from the perspective 	
of someone who knows nothing and needs to be able to do it.	
Have them create a video that demonstrates and it.	

Developing the Plan	
Basic Steps Institutionalize the process and capture stakeholder support	
 Conduct assessments of organizational needs Develop the succession planning model Implement succession planning strategies 	
Continuously measure, evaluate, and adapt	
	7
Plan	
 Keep operators. Cross train/certify maint/lab staff to transfer as operators retire. 	
Eliminate their old position. Now:	
6 Operators2 MaintenanceNo lab techs	
• SOPs	
Act	
Created draft planShared with employees and union	
Got their feedback Modified plan	
 Conveyed that plan was dynamic 	
 Created schedule for implementation Created schedule for review and revision 	
	1

Now Looking at Managament	
Now Looking at Management	
All 3 managers plus admin gone in 5 years. 140 years of experience.	
Identified all mission critical tasks and licenses. Scary list. Compliance sampling and reporting.	
Industrial pretreatment. Decision making. Scheduling	
Payroll Process control Data management	
Computers Project management, bid specs 4A Certification	
	1
Developed Progression/Succession Program.	
Staff can volunteer to learn mission critical tasks.	
Once proficiency developed, recognition and pay bump. Provides:	
Back up/Redundancy Pipeline	
Continuous learning environment Excitement/Competition Organizational capacity/resiliency.	-

Succession Planning

It may be a tougher process to gain the funds and long term support to implement a succession plan $\,$

- 1. List current personnel & their experience
- 2. Note whether the current personnel (quantity & training level) is sufficient (and whether it will be in the future)
- 3. Create specific plans to pass down information through written records and training

Succession	בוט ו	nning
Juccession	1 1 10	111111111111111111111111111111111111111

- Decent salary and benefits in order to attract an operator in a highly competitive job market
- Replacing the full-time qualified operator with a part-time or unqualified one is an irresponsible action
- Most municipal leaders don't realize that Water and Wastewater operation is an advanced profession that requires necessary skill, thorough training, and on-the-job experience

Succession Planning

- A solid succession plan requires that a community hire and train someone at least a year or two (or more) in advance
- Send operators to training courses and pay them well enough to get the necessary skills, knowledge, and abilities for the job
- Having a certified operator is important in making sure water is safe, it's the law

Succession Planning

- Without a succession plan in place, it is difficult to move existing personnel into the open leadership slots
- Immediately identifying opportunities to collect and standardize information and align training for all staff
- Recruiting for the water facility can be a challenge in that many professionals don't want to jump from one water plant to another

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	1
Succession Planning	
It is important to develop our staff into leaders	
 Take information and system knowledge out of employees' heads and put it on paper 	
Groom front-line and mid-level operators for upper management	
 http://www.wef.org/resources/online-education/webcasts/webcasts- test-page/gray-hair-operator-syndrometraining-newbies-in-a-wave- 	
of-retirements/	
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Step 1: Evaluate staffing needs & technology options	
The bottom line is that utilities need to be more efficient, even while there are more demands for their services than ever before. This	
means less focus on manual processes and more energy on optimizing staff and resources. It is important to understand your state's regulations on staffing, but there are ways you can work with	
your regulators to reduce your staffing requirements. Technology such as GIS and SCADA can help capture knowledge, improve data	
management and engage your workforce.	

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• Step 2: Develop an internship & mentoring program College and high school graduate unemployment is still high and capitalizing on technical students can really pay off. Developing an internship program can help attract and engage young talent that might not otherwise be aware of opportunities at your utility. Interns tend to make engaged employees and should be seen as long term investments in your organization. On average, 90% of interns that get hired into permanent positions are retained after one year. In order to keep young professional happy and engaged at work, a formal mentoring program should also be put in place.	
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In order to attract new talent, a utility in Portland, Connecticut worked with their local high school to establish a year-long technical program for seniors that took students through all the basics of becoming a wastewater plant operator. At the end of the year, the students were invited to take the operator certification. After three years, the Town has graduated 14 certified operators, a majority of which still work in water treatment today.	
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still work in water treatment today.	
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 Step 3: Target related fields as a resources There are lot of skilled workers that can be an asset to your utility, but 	
they may have no connection to the water and wastewater industry—	
yet. By targeting and recruiting people from closely related industries	
you can find many more technically-advanced employees. Electrician, mechanics and military veterans are great candidates as these groups	
of people tend to have the right technical skills to become certified staff.	
Step 4: Develop training programs to enhance staff skills Getting employees in the door is one obstacle, but you also need a plan to retain younger employees and help them build careers at your plant. Although it may require additional investment, it is essential to encourage your staff to take certification exams and trainings and make sure you keep your employees informed about changes in industry standard, treatment technologies and regulatory changes.	