

SAUDI ARABIAN CHEVRON INC. - KUWAIT GULF OIL COMPANY (K.S.C.)

eCOW level 2 isolation training

Sep 2025



Welcome to eCOW level 2 isolations training

Level 1
Permits

For all eCOW users



Level 2 Isolations

For eCOW users involved in isolation management



Level 3 BCPs

For eCOW users involved in bypassing critical protections



Level 4
User Admin

For eCOW tool user administrators



Level 5
Region Admin

For eCOW tool regional administrators



Prior to this course, you should have taken Level 1 Permit training.



Housekeeping

Most of you were likely in the earlier Level 1 class.

Quick review of:

- Facility information
- Emergency exits/evacuation procedures
- Introduction of new participants
- Sign-in sheet





Ground rules

- Be on time and stay for the full training
- Don't be distracted by other things on your computer or phone
- Stay on track with the exercises and avoid working ahead
- Ask questions and seek clarification where needed
- Be open to the move to electronic permitting



If connected virtually:

- Keep phone on mute unless asking question
- Ask questions by raising hand or adding to chat
- If possible, show your video when speaking





Level 2 course objectives

- Understand how eCOW supports isolation management
- ☐ Gain awareness on isolation workflows and roles
- Become familiar with isolation types and icons
- Learn isolation workflow from creation through close
- □ Learn how to Amend, Partial Permanent De-Isolation (PPD), copy and search for ICCs
- Understand de-isolation for test and long-term isolation requirements
- Understand how to create and use isolation templates



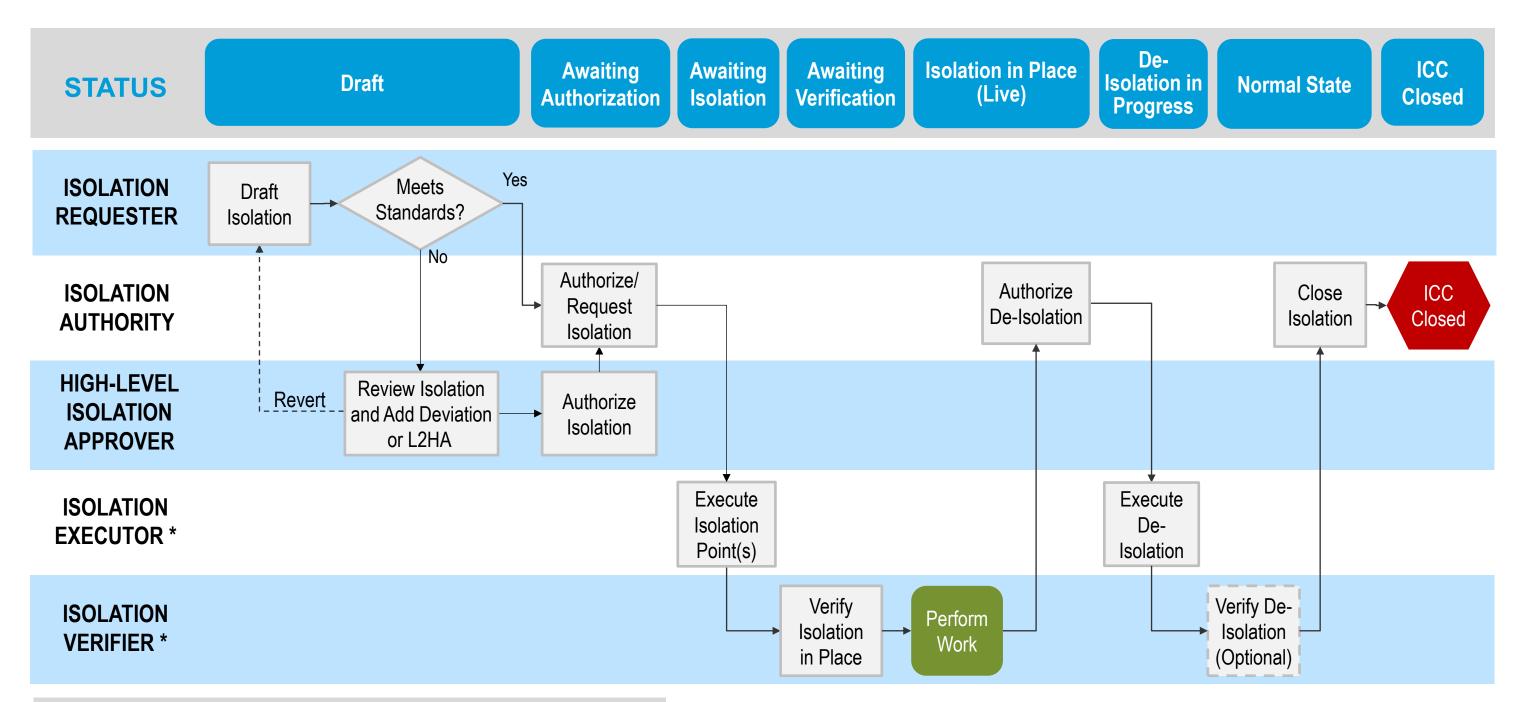


eCOW tool

Isolation workflow, roles and icons



Isolation Certificate workflow



^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Isolation roles

- The following are the system roles that support execution of the isolation workflow
- An individual's role will dictate the actions they can take on an isolation











We'll learn more about each role's responsibilities as we walk through the isolation workflow



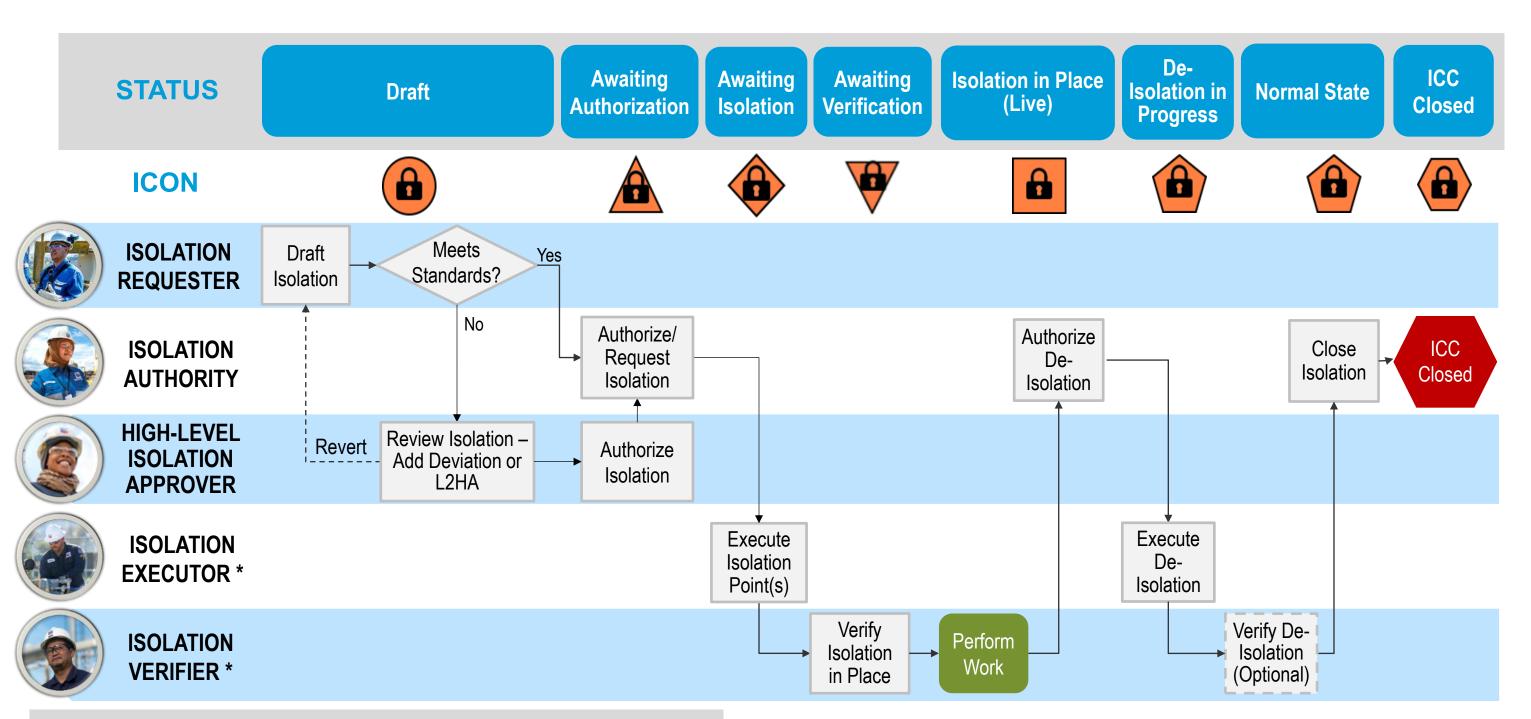
Isolation status and icons

- Icon shape changes as ICC moves through workflow
- Helps users visualize the progress of work
- Displayed on site graphics and the electronic and printed copies of the ICC

WORKFLOW STATUS	ICON	WORKFLOW STATUS	ICON
Draft / Draft for Shutdown	A	Live (LTI)	
Awaiting Authorization		PBU Amendment	P
Awaiting Isolation	•	Partial Permanent De- isolation (PPD) in Progress	•
Awaiting Isolation for Amendment		De-isolation in Progress	
Awaiting Verification		Normal	
Isolation in Place (Live)		Closed	
Live (DFT)	4		



Isolation Certificate workflow



^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Knowledge check

What are the statuses that an isolation goes through in a typical workflow?

What are the 5 system roles associated with the isolation workflow?

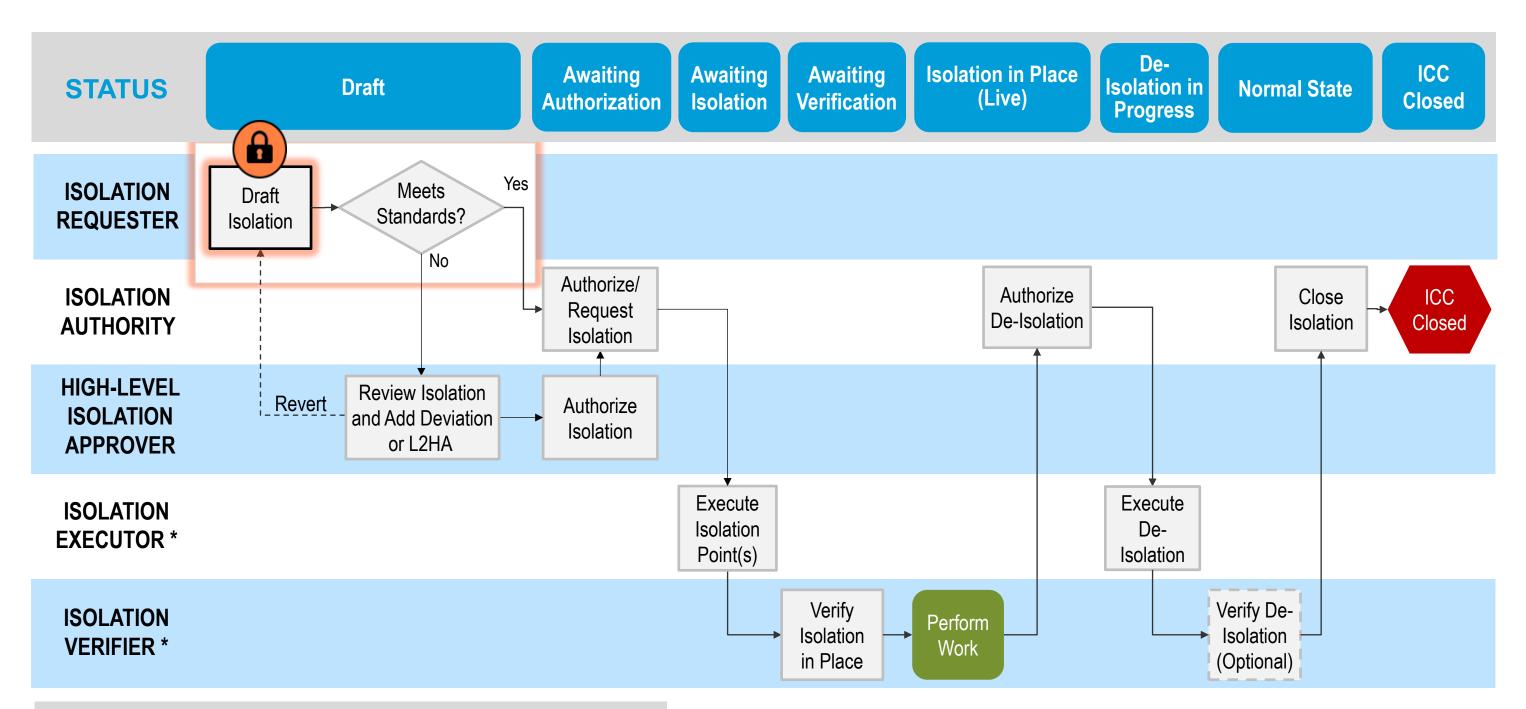
True or False?
The color of an isolation icon changes as it progresses through the workflow.



eCOW Tool Drafting an isolation



Isolation Certificate workflow



^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Isolation requirements

- When creating a permit, you designate whether there is an isolation requirement
- An isolation enables safe execution of a task
- If isolation is required, an Isolation Confirmation Certificate (ICC) must be attached to the permit
- ICC is valid for as long as necessary (no lifetime)





Drafting an Isolation (ICC)

Control of Work

- An Isolation Confirmation Certificate (ICC) can be created:
 - As a standalone certificate within the Isolation Management module via Draft list, + Isolation button
 - From approved isolation templates
 - By copying an existing ICC

Control of Work > Isolation Managem... > Draft Permit to Work ₩ Applied Filters (0) Permit Not Required #. AGBAMI-FPSO-265328 Apps Isolation Management Isolation Agbami FPSO Ų Certificate Alerts Permit Templates Active Fire Protection / 0.75"-A2MRS-0417427 (BALL) (Isolation Create new Isolation AGBAMI-FPSO-00265269 Isolation Templates Isolation Certificate Template + Create new Isolation Certificate from an authorised Aabami FPSO Toolbox Talk Tank - Module 5 10-Navaids, Foghorns, REWS, Beacn Bypass Critical Protection TAM: Replacement of 8"-D2RRZG-4800285 & 4"-D2RRZG-4800226 at 4P L3 Assessment Actions Required Actions Request by Permit Requester

 From within a permit via the 'Action' button if there is an isolation requirement noted





Isolation Certificate Types

The ICC module has 2 types of Isolation certificates that a user must select from when creating an ICC

- Isolation Certificate or
- Blinding

The type of Isolation will drive specific business rules for each:



Note: The individual Isolation point type will determine the ICC tag format to be applied.

- Process/Mechanical, Electrical, Exposed High
 Voltage Electrical point type applies the regular tag
- Blind point type applies the multi-part blind tag

Business Rules

Isolation Certificate

- 1. Optional "De-Isolation Verification Required" signature, defaults to "No"
- 2. Will apply legacy ICC icon

Blinding

- Required "De-Isolation Verification Required" signature
- 2. If ICC associated with a CSE permit, will require an HLIA to sign off after the ICC has been "Verified" to move to "Live" state
- 3. Will apply the ICC icon with "BLIND" at the bottom





Isolation Requester Role



The Isolation Requester (IR) role is broken out into the 5 isolation types:

- Process / Mechanical Requester
- Electrical Isolation Requester
- High Voltage Isolation Requester
- Instrument and Controls Isolation Requester
- Blind Isolation Requester

A user must have the applicable role to answer the question of:

"Does isolation scheme meet the standard?

There is no mutual exclusivity, so a user may have all 5 roles if the BU determines they are trained and qualified to perform these roles.

A user only needs 1 of the Isolation Authority roles to be able to create and request actions.

If a user does not have a isolation requester role for all of the isolation point types in the plan, they will only be able to answer the question of:

"Does isolation scheme meet the standard?

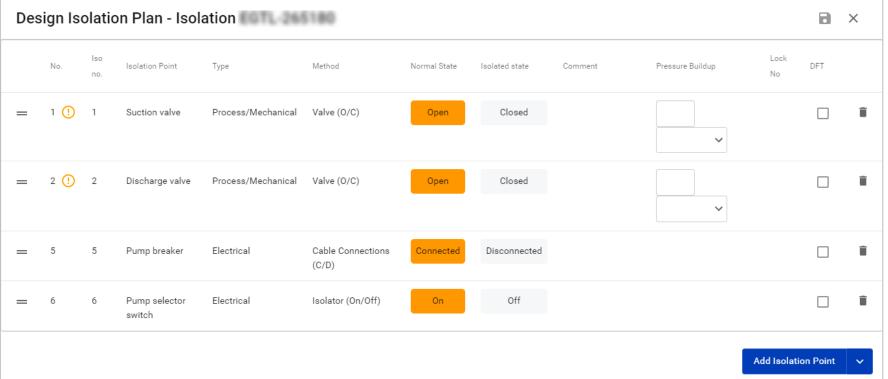
All isolation requester for each type of point must answer the scheme questions before the system will allow any requester to sign and submit for their isolation types.

4	Request, Authorize and Confirm Isolation Scheme						
	Does isolation scheme meet the standard? *						
	Blind?	•	Yes	\bigcirc	No		
	High Voltage Electrical?	•	Yes	\bigcirc	No		
	Instrumentation and Controls?	•	Yes	\bigcirc	No		
	Process/Mechanical?	•	Yes	\bigcirc	No		
	Electrical?	•	Yes	0	No		



Isolation points in isolation/de-isolation plan



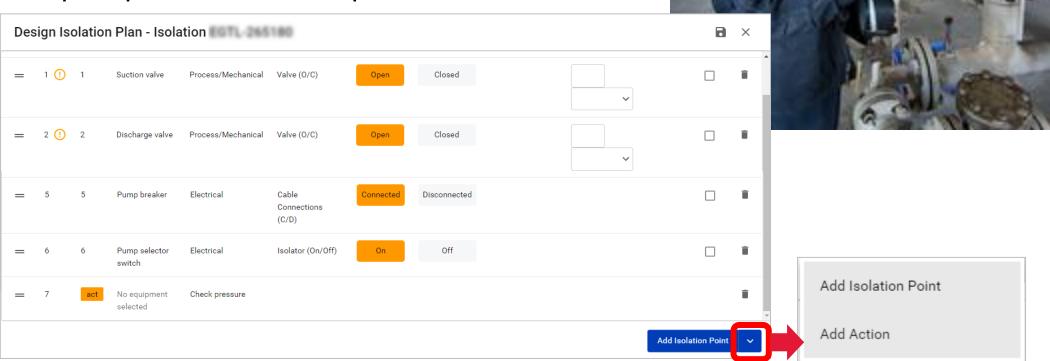


- All isolation points must be listed in the isolation and de-isolation plan
- Types of isolation:
 - Process/Mechanical
 - Electrical
 - Instrumentation and Controls
 - Exposed High Voltage Electrical
 - Blind
- Isolation points will be pulled from the equipment list or can be added as free text if not in the equipment list
- Different 'Methods' are available based on the isolation 'Type' selected
- Current state of isolation point will be highlighted in orange



Actions in isolation/de-isolation plans

- Actions are additional instructions that can be listed to support the safe execution of the isolation plan
- Inclusion of actions enables creation of an isolation procedure rather than just a list of isolation points
- Entered via a free text box
- Can be assigned at the appropriate sequence in the workflow to support isolation plan/procedure development







Drafting an Isolation

video demo



Getting started with hands on tool practice



PERMIT VISION LOG IN

https://chevron.training.us.enablon.io/permitvision

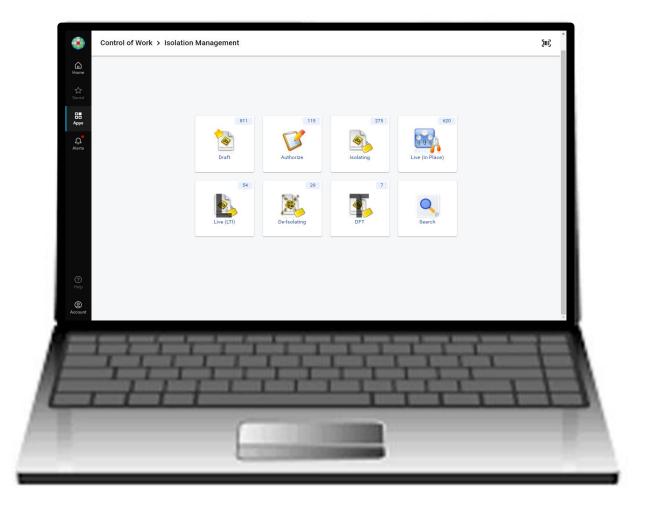
Refer to the email you received for login instructions.



Exercise 1: Drafting an isolation (Breakout group)

Create an Isolation (ICC)

- Create an isolation
- Complete all mandatory fields (*)
- Save the isolation and write down your ICC number
- Design isolation/de-isolation instruction plans with three isolation points, using at least two different types and one action
- 'Save' your ICC





Questions or comments on the exercise





Knowledge check

What 'tool role' drafts an ICC?

What are the 5 types of isolation?

What information is included for each isolation point in the isolation plan?

True or False?

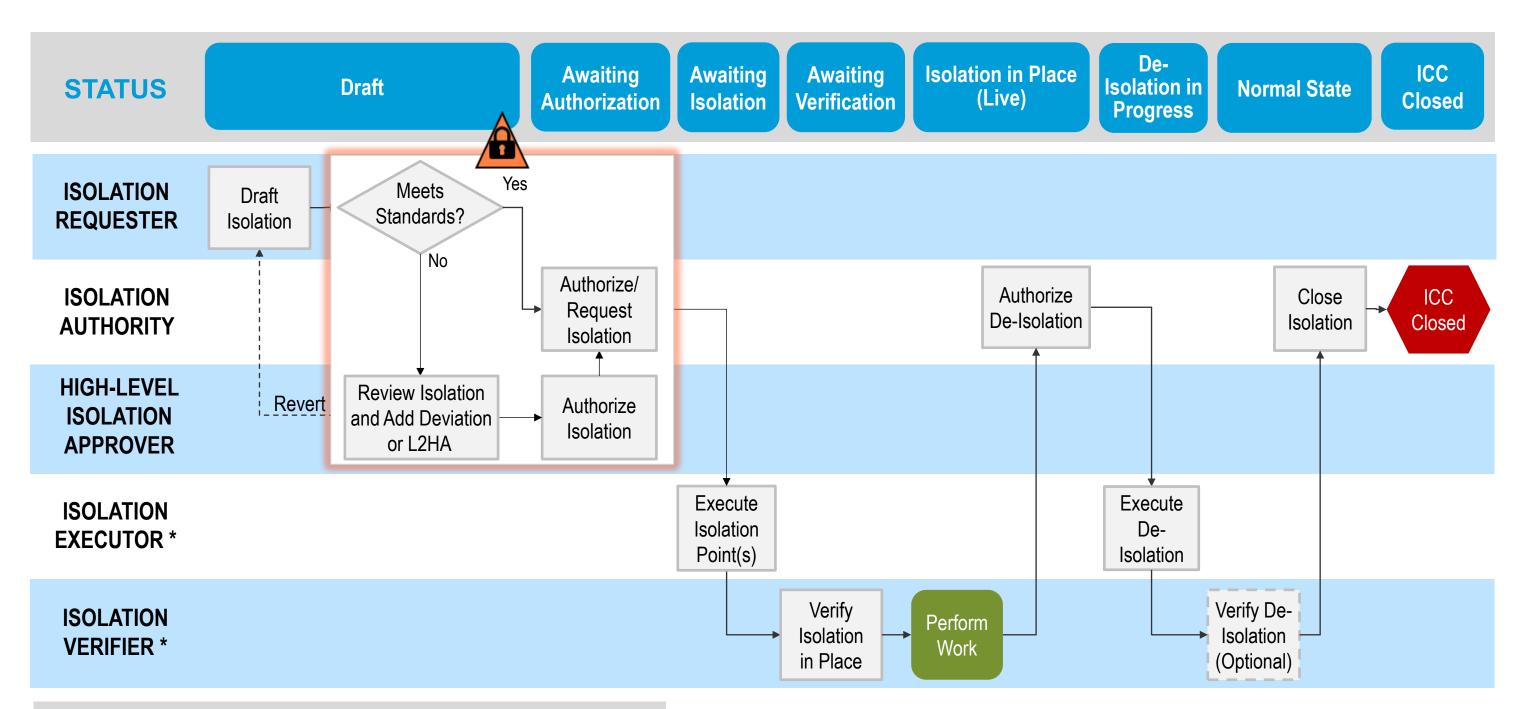
When an isolation plan is created in eCOW, the tool also creates a deisolation plan



eCOW Tool **Authorizing an isolation**



Isolation Certificate workflow



^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Isolation Authority Role



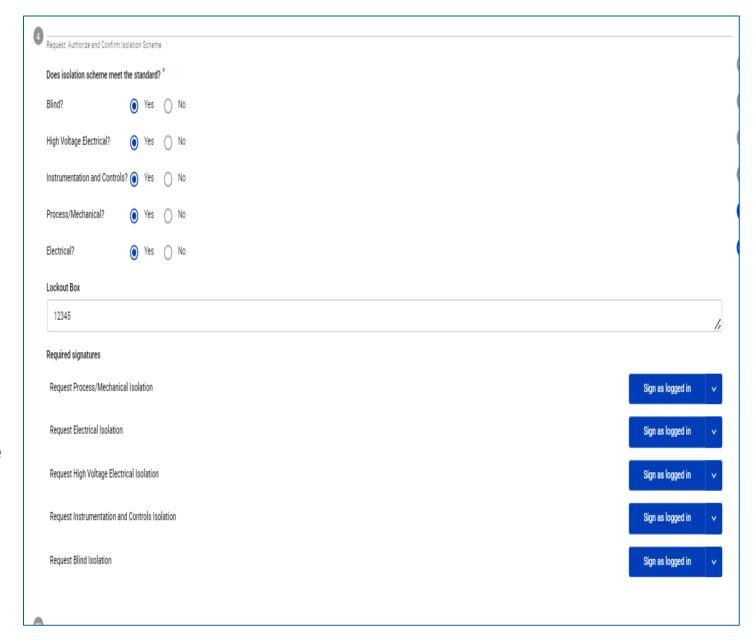
The Isolation Authority (IA) role is broken out into the 5 isolation types:

- Process / Mechanical Isolation Authority
- Electrical Isolation Authority
- High Voltage Isolation Authority
- Instrument and Controls Isolation Authority
- Blind Isolation Authority

A user must have this role(s) to be able to authorize each type of isolation points.

There is no mutual exclusivity, so a user may have all 5 roles if the BU determines they are trained and qualified to perform these roles.

A user only needs 1 of the Isolation Authority roles to be able to authorize an action.





Authorizing an isolation



After an isolation is drafted it must be authorized before isolation can begin.

If Isolation Meets Standards	Isolation Does Not Meet Standards				
Isolation Authority may authorize the isolation.	 High-Level Isolation Approver first authorizes after adding either: Deviation L2HA Then, Isolation Authority authorizes before execution. 				
Does isolation scheme meet the standard? * Process/Mechanical? Yes Electrical? Yes	Required Actions Request Isolation Possible Actions Countersignature Add L2 HA Add Deviation or File Attachment				





Authorizing an Isolation

video demo



Authorizing an Isolation

(Does Not Meet IHE standard – L2 HA attached)

video demo



Authorizing an Isolation

(Does Not Meet IHE standard – Deviation attached)

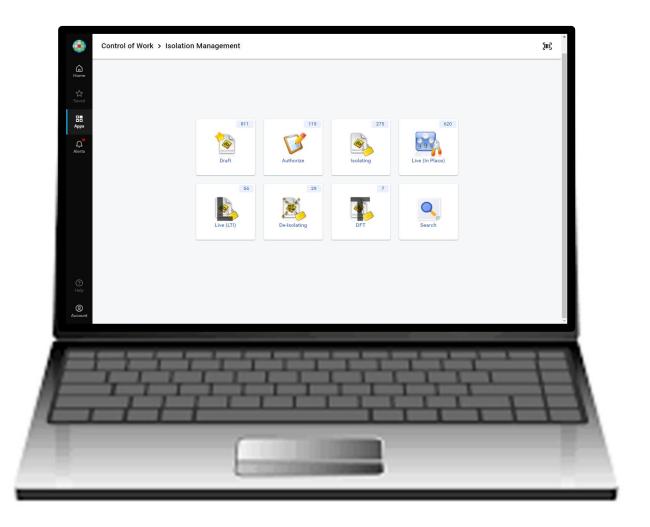
video demo



Exercise 2: Authorizing an isolation

Isolation Authority

- Authorize the isolation created in previous exercise
 - Review the isolation
 - Confirm that the isolation meets standards
 - Authorize the isolation





Questions or comments on the exercise





Knowledge check

If an isolation meets standards who typically authorizes the isolation?

If an isolation does not meet standards, who must authorize the isolation?

What action must be taken when an isolation does not meet standards?

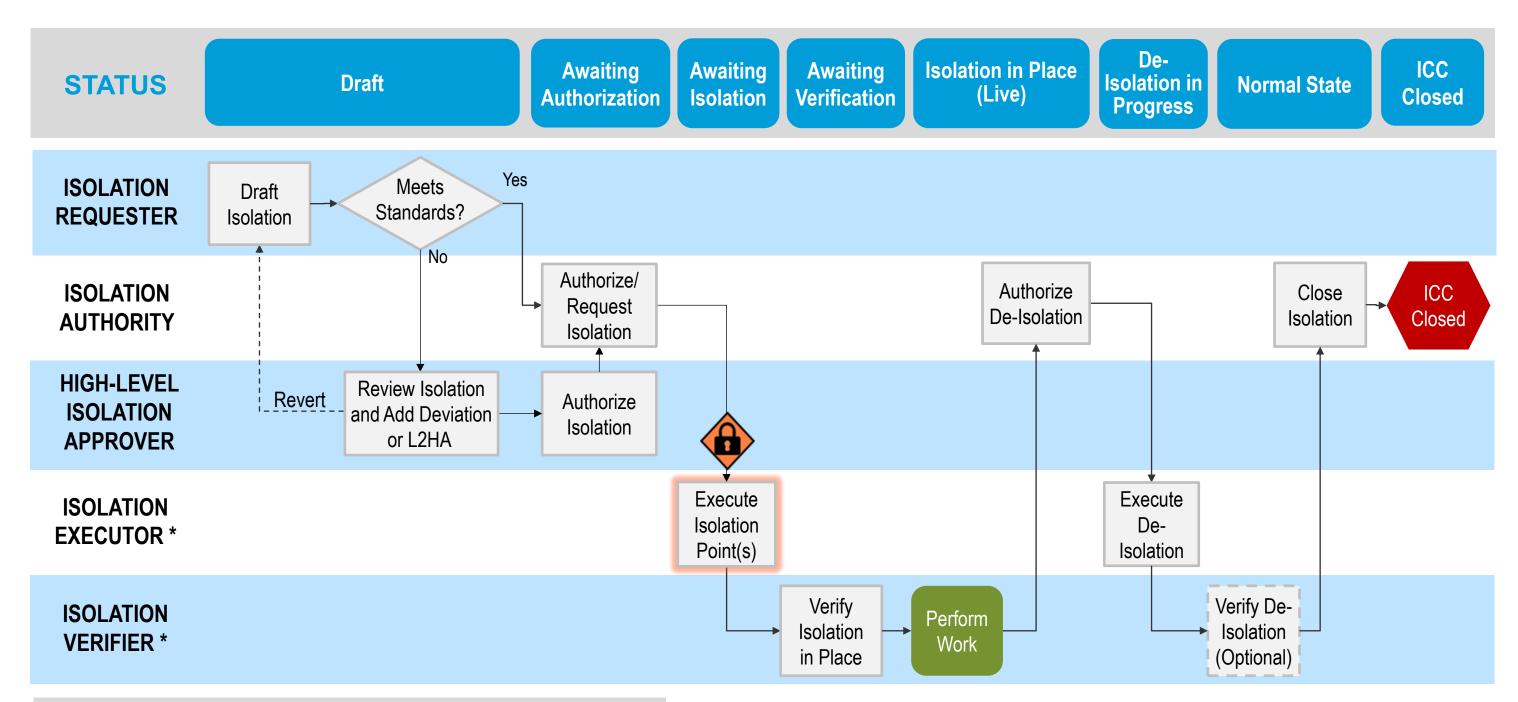
Describe the symbol used to indicate an isolation that is awaiting authorization.



eCOW Tool **Executing an isolation**



Isolation Certificate workflow



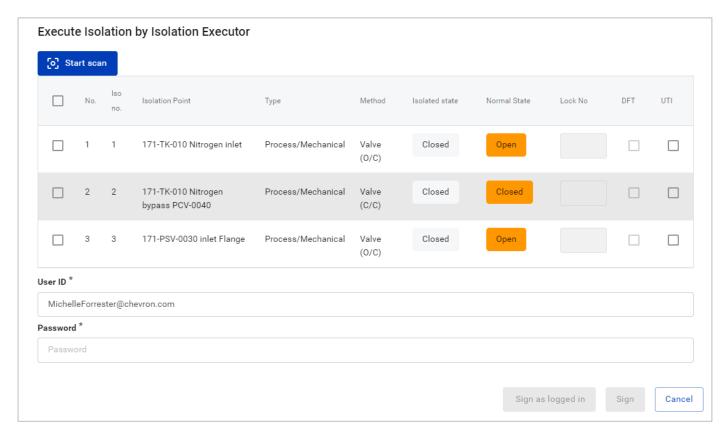
^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Executing isolations



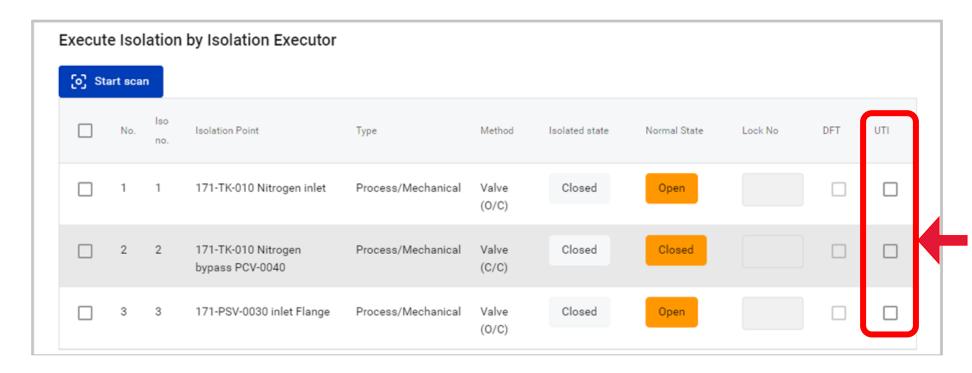
Isolation Executor must check each action item and/or isolation point to indicate it is being executed.



"Lock Number" field is available for entry starting with the isolation draft and must be entered for isolation execution.



Unable to isolate (UTI)



- If an isolation cannot be applied as per the approved plan, the isolation should be marked as "Unable to Isolate" (UTI)
- This option is only available in the "Execute" state
- Check the 'UTI' box in the 'Execute Isolation' pop up
- System will automatically revert ICC back to "Draft" to enable redesign of the plan (add new isolation points)
- If isolation initiated from a template, isolation moves to "Draft for Amendment"



Printing isolation tags

- Permit Vision will generate isolation tags, including multi- blind isolation tags
- Tags can be printed and taken to field to apply isolations
- After isolations are applied, Isolation Executor signs to confirm the isolations are in place



Closed





Executing an Isolation

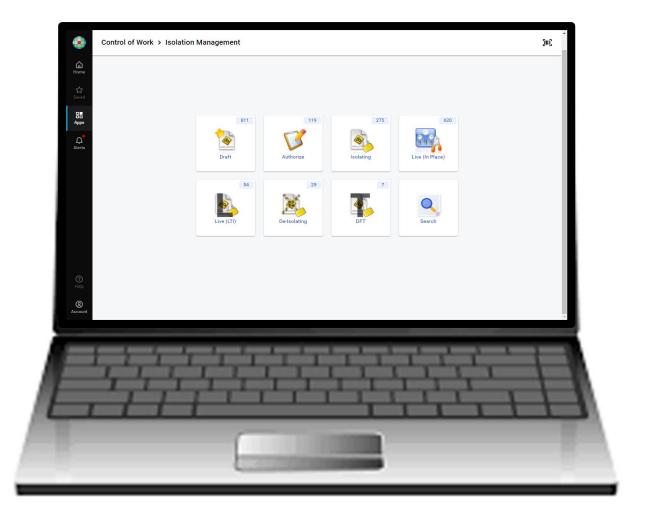
video demo



Exercise 3: Executing an isolation

Isolation Executor

- Execute the isolation from previous exercise
 - Access the isolation
 - Check each action item and/or isolation point to be executed
 - Sign to confirm you have executed the isolation





Questions or comments on the exercise





Knowledge check

Who is responsible for executing and confirming isolations place?

What is required in the eCOW tool to confirm isolations are in place?

True or False?
The person who authorized the isolation can also execute the isolation.

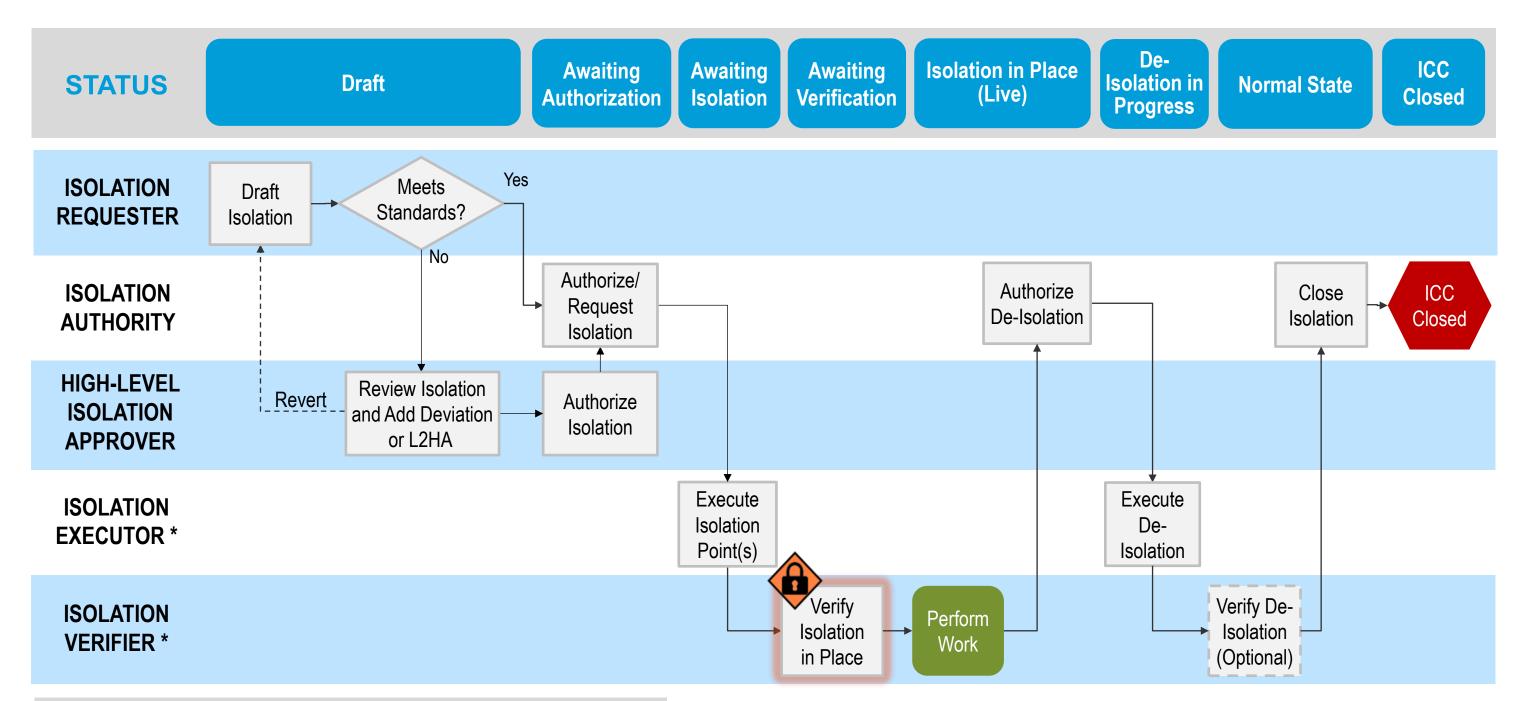
Describe the symbol used to indicate an isolation is in progress.



Verifying isolations in place



Isolation Certificate workflow

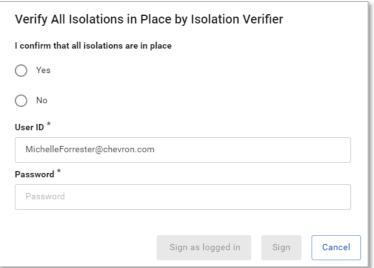


^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Verifying isolations in place

• Isolation Verifier verifies that all isolation points are in place.



- The Isolation Verifier must be a different person than the Isolation Executor.
- There may be multiple verifiers on an isolation. The "Guest" signing feature is available for additional verifiers.









Verifying an Isolation

video demo

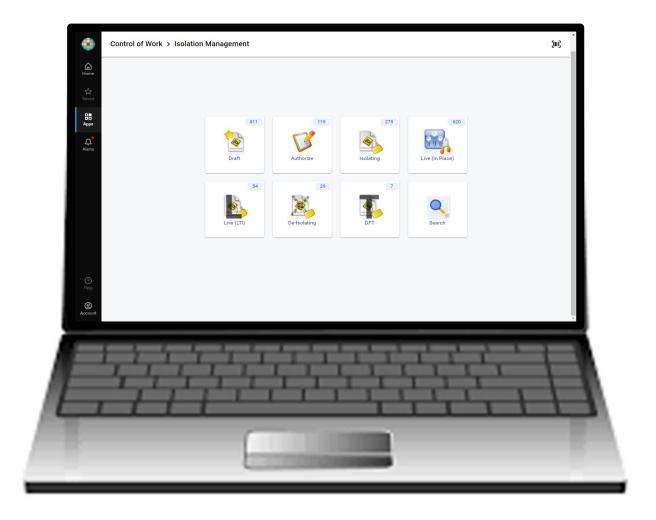


Exercise 4: Verifying isolation in place (Breakout group)

Isolation Verifier

- Verify the isolation from previous exercise is in place
 - -Access the isolation
 - Review the isolation points and confirm they have been executed
 - Sign utilizing "over the shoulder signing" per instructor direction

- Test User 2
- Chevron01!





Questions or comments on the exercise





Knowledge check

Who is responsible for verifying that isolations place?

True or False?
You must have 1 additional verifier sign off for an isolation to move to the "Live" state

True or False?
The person who executed the isolation can also verify the isolation.

What state does an isolation move to after it is verified?



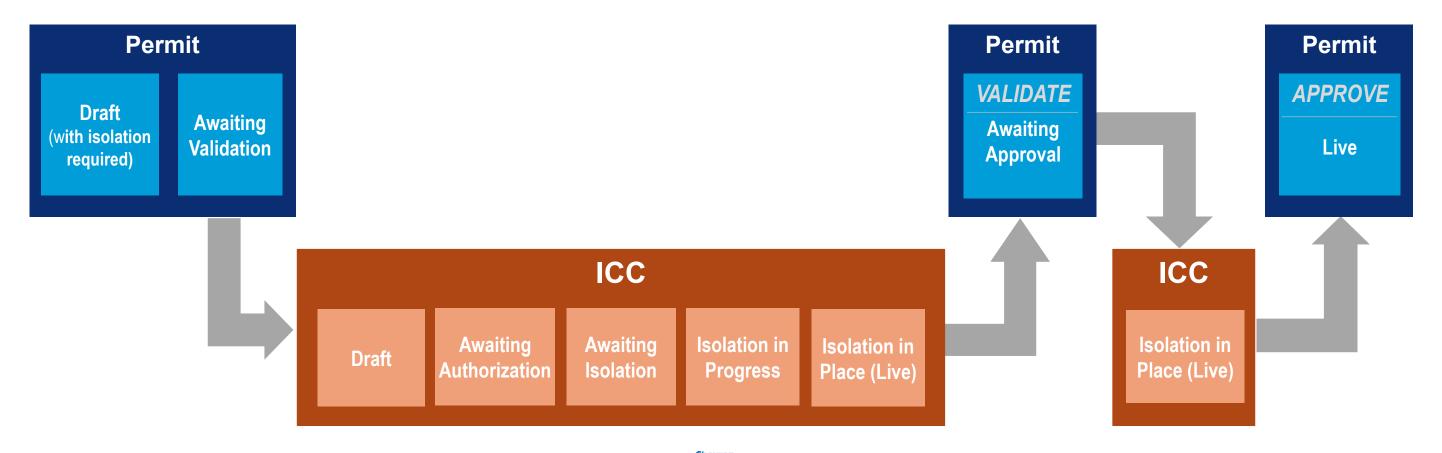
eCOW tool

Permit/isolation dependencies



Dependencies between permit and isolation

- If permit indicates that an isolation is required, an Isolation Confirmation Certificate (ICC) must be attached to the Permit before the permit can be validated
- Isolation can be in any status between *Draft* and *Live* to satisfy the permit/ICC dependency requirement, allowing the permit to be validated
- Permit can not be approved unless Isolation is Live

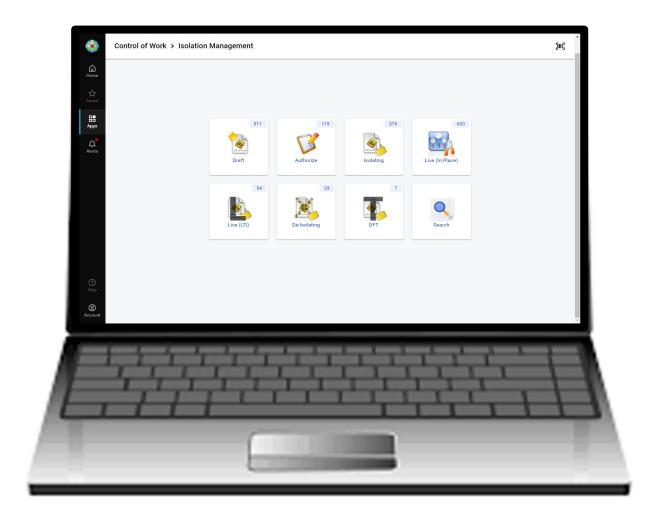




Exercise 5: Creating a permit with isolation requirement

Permit / ICC requester

- As permit requester, search for your closed permit from the 1st exercise
- From the header of a permit, copy the permit
- Add planned start date, planned end data and mark Isolation requirement = Yes
- Save your permit
- From Action button Add ICC > Existing
- Search for the ICC record you created today by ICC Number or Title
- Review attachment tab
- Unlink the ICC you just added





Questions or comments on the exercise





Knowledge check

If a permit requires an isolation, at what point in the permit workflow must the ICC be added to the permit?

If an isolation is required for a permit, what status must the ICC be in for the permit to be approved?

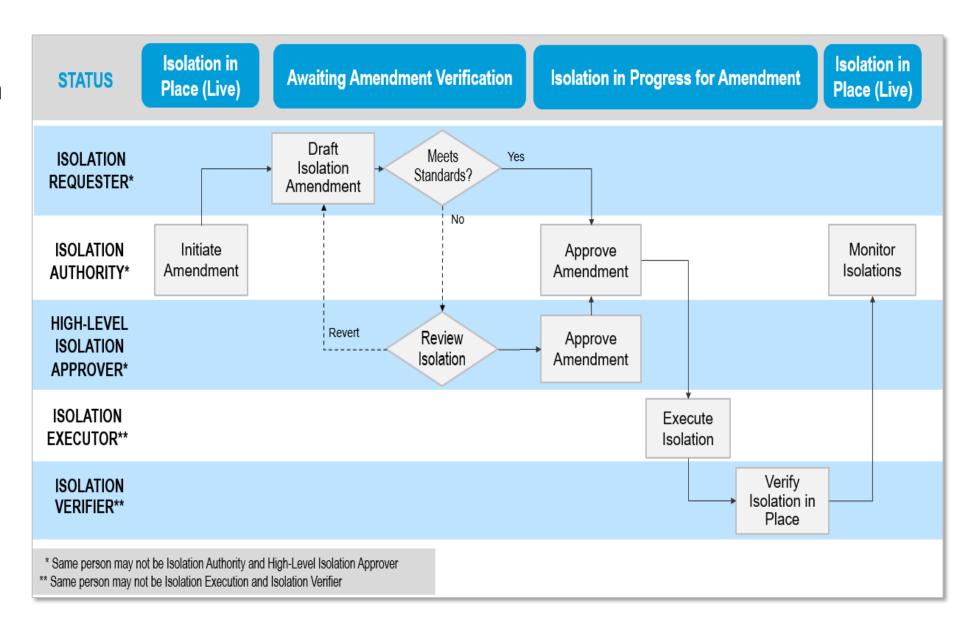


eCOW Tool Live for amendment



Live for amendment

- Used when there is a requirement to amend the isolation confirmation certificate once isolations are in place
 - e.g., A valve passing after isolation is in place
- Existing isolations that have been confirmed cannot be edited; can only add new isolation points
- After amending the ICC, isolation workflow is progressed again from draft to isolation in place (Live)





Live for amendment dependencies

There are dependencies between permit and isolation records when an isolation is being amended.

Isolation Change	Permit requirement
Isolation in Place (Live) → Draft for Amendment	Permit cannot be Live. Permit must either not yet be issued or must be Suspended (for re-approval) state
Isolation in Progress for Amendment → Isolation in Place (Live)	Permit can now be moved back to Live



Live for Amendment

(stand-alone isolation)

video demo



Live for Amendment

(isolation attached to permit)

video demo

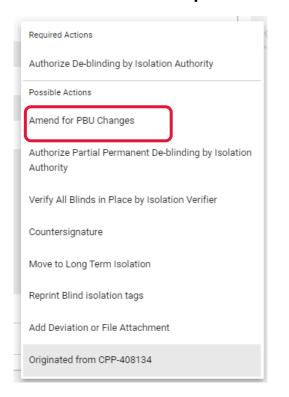


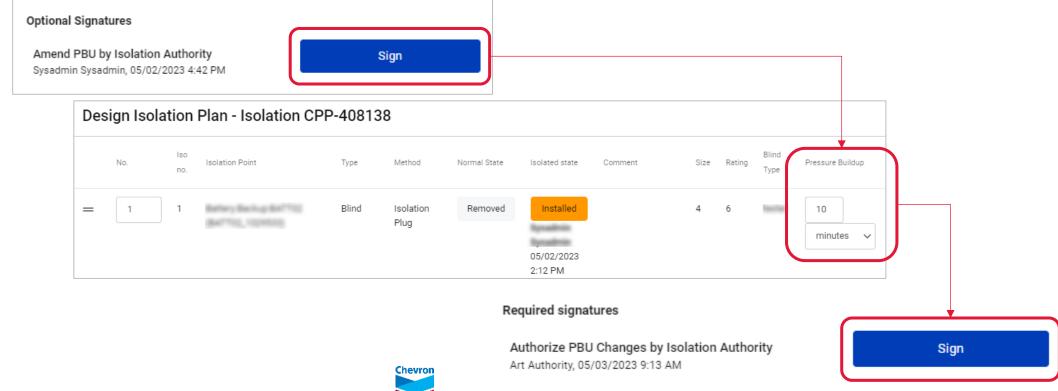
eCOW Tool PBU amendment



PBU amendment

- Pressure build up (PBU) is often recorded for blind and process/mechanical isolation points
- Pressure build up can be updated or "amended" as needed within the isolation plan design
- To update PBU the following steps and signatures are required:
 - Amend PBU by Isolation Authority
 - Authorize PBU Changes by Isolation Authority
- While PBU update is in progress the isolation moves to "PBU Amendment" status





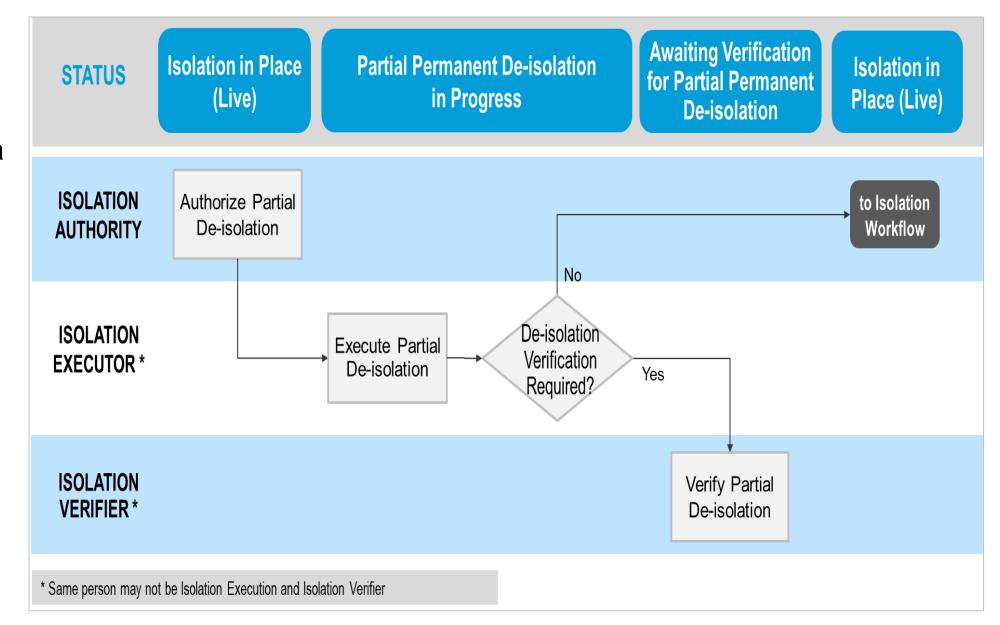
eCOW Tool

PPD Partial Permanent De-Isolation



Partial permanent de-isolation

- De-isolation can be authorized for one or more isolation points
- "Partial Permanent De-isolation" or PPD is an option where only a portion of the isolation points are de-isolated
- At a minimum, one isolation point must remain isolated when using the PPD workflow
- The remaining isolation points can be authorized for deisolation later

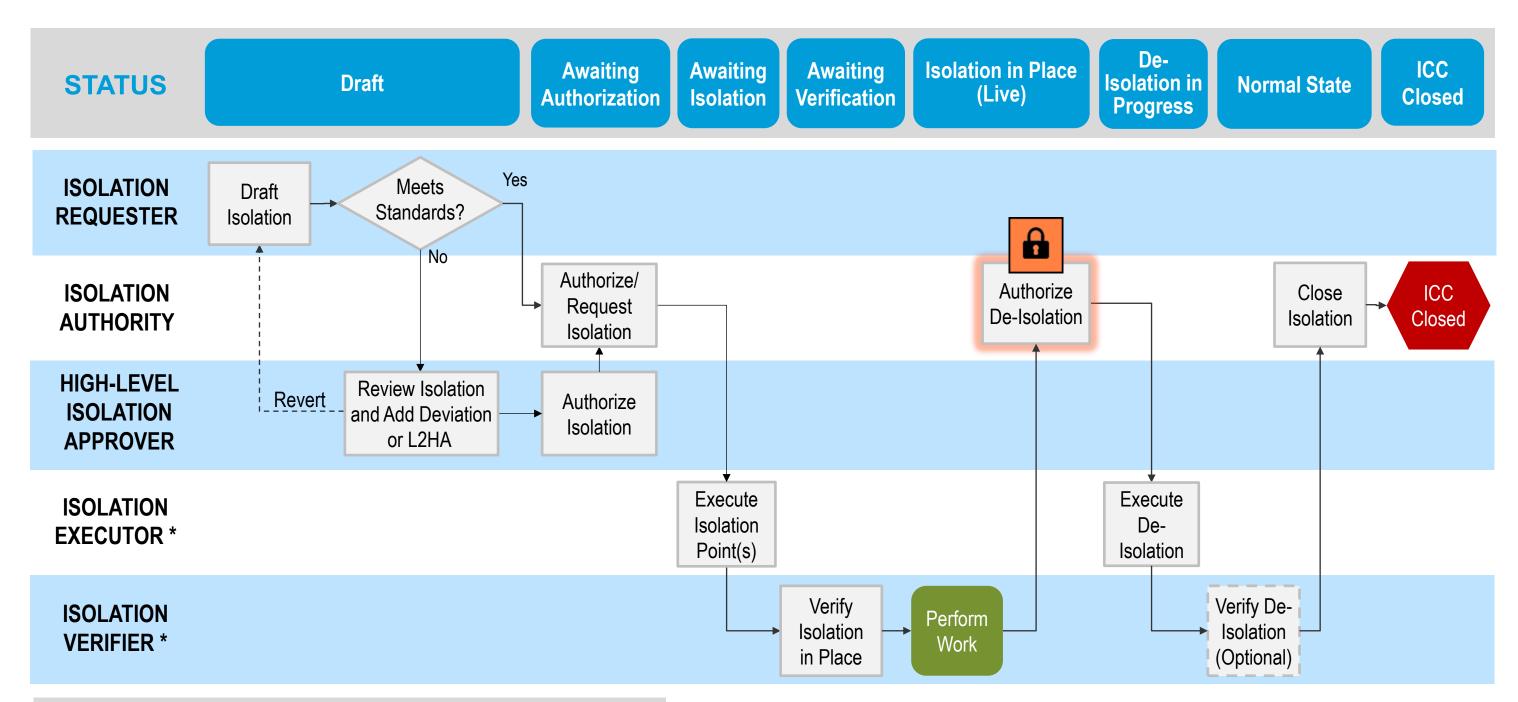




eCOW Tool **Authorizing de-isolation**



Isolation Certificate workflow

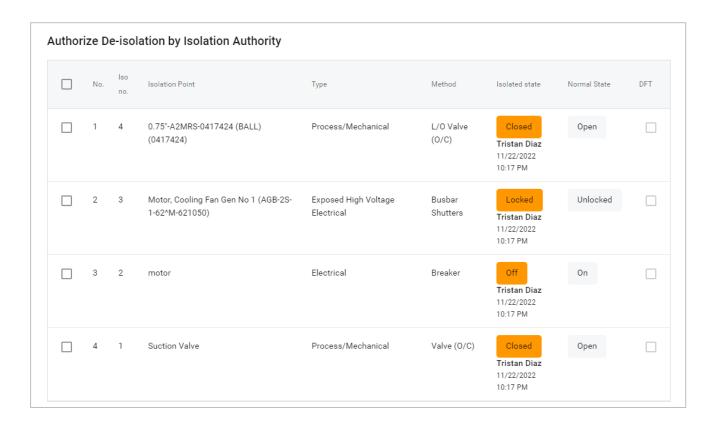


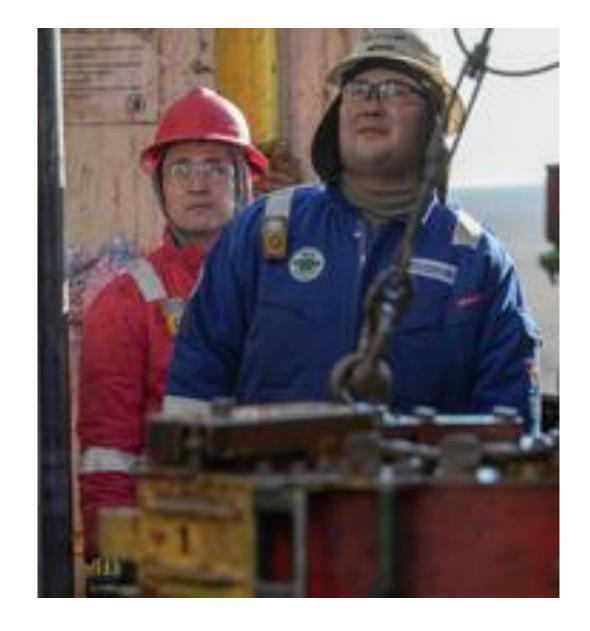
^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Authorizing de-isolation

- Once work is complete, isolations can be de-isolated
- Isolation Authority must authorize de-isolation, selecting the isolation points to be de-isolated
- Isolations cannot be authorized for de-isolation when the associated permit is still live







Authorizing de-isolation

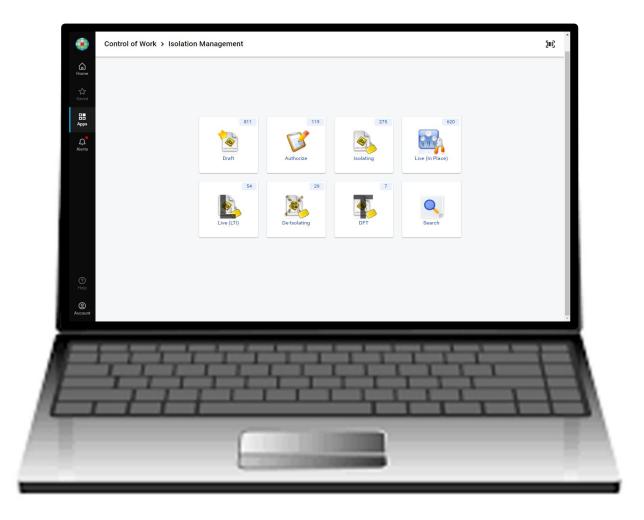
video demo



Exercise 6: Authorizing de-isolation

Isolation Authority

- Authorize de-isolation of the isolation from the previous exercise
 - Access the isolation
 - Select all isolation points for de-isolation
 - Sign to authorize de-isolation



70



Questions or comments on the exercise





Knowledge check

Who is responsible for authorizing de-isolations?

True or False?
An isolation that is attached to a live permit can be deisolated.

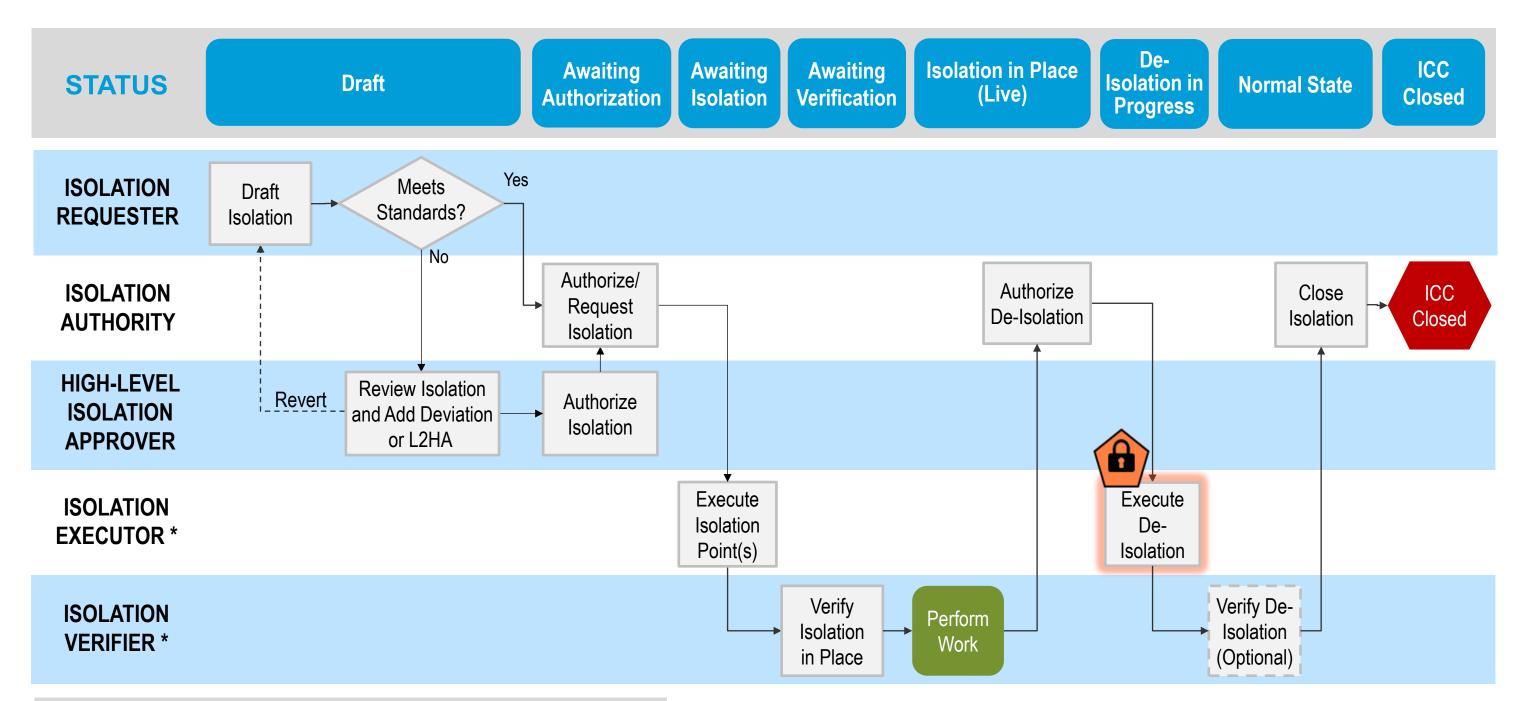
Describe the symbol used to indicate de-isolation has been authorized and is in progress.



eCOW Tool **Executing de-isolation**



Isolation Certificate workflow

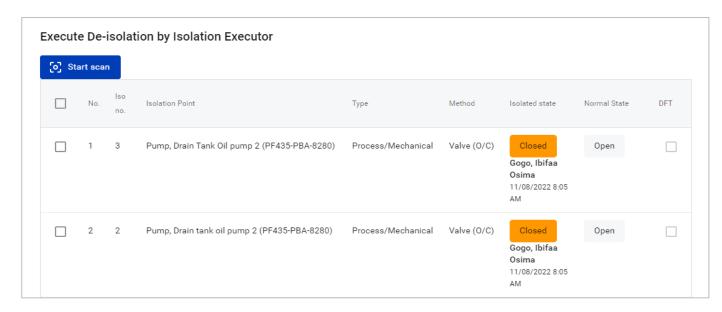


^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Executing de-isolation

- After de-isolation, Isolation Executor must execute de-isolation and confirm that it is complete
- De-isolation can only be executed for isolation points that have been authorized for de-isolation
- If all isolation points have been de-isolated, the isolation status will move to "Normal State"
- Verification of de-isolation is optional; requirement of de-isolation verification is determined when isolation is drafted







Executing de-isolation

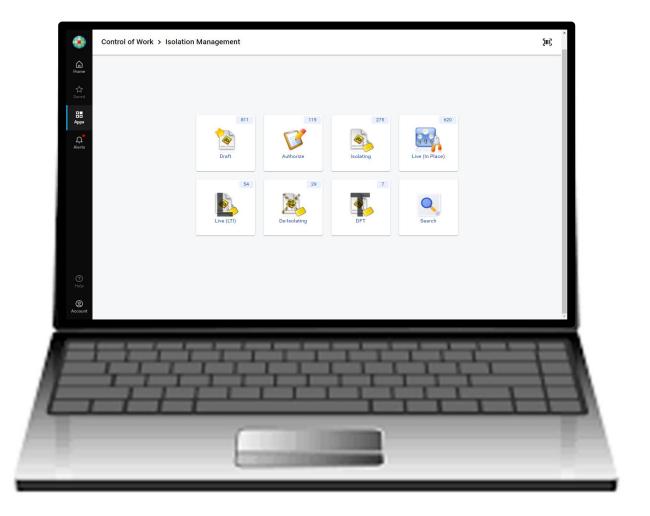
video demo



Exercise 7: Confirming de-isolation

Isolation Executor

- Confirm de-isolation of the isolation from the previous exercise
 - Access the isolation
 - Select all isolation points for which you are confirming de-isolation
 - Sign to confirm de-isolation



77



Questions or comments on the exercise





Knowledge check

Who is responsible for executing and confirming de-isolations?

True or False?
De-isolations must be physically confirmed before confirming de-isolation in the tool.

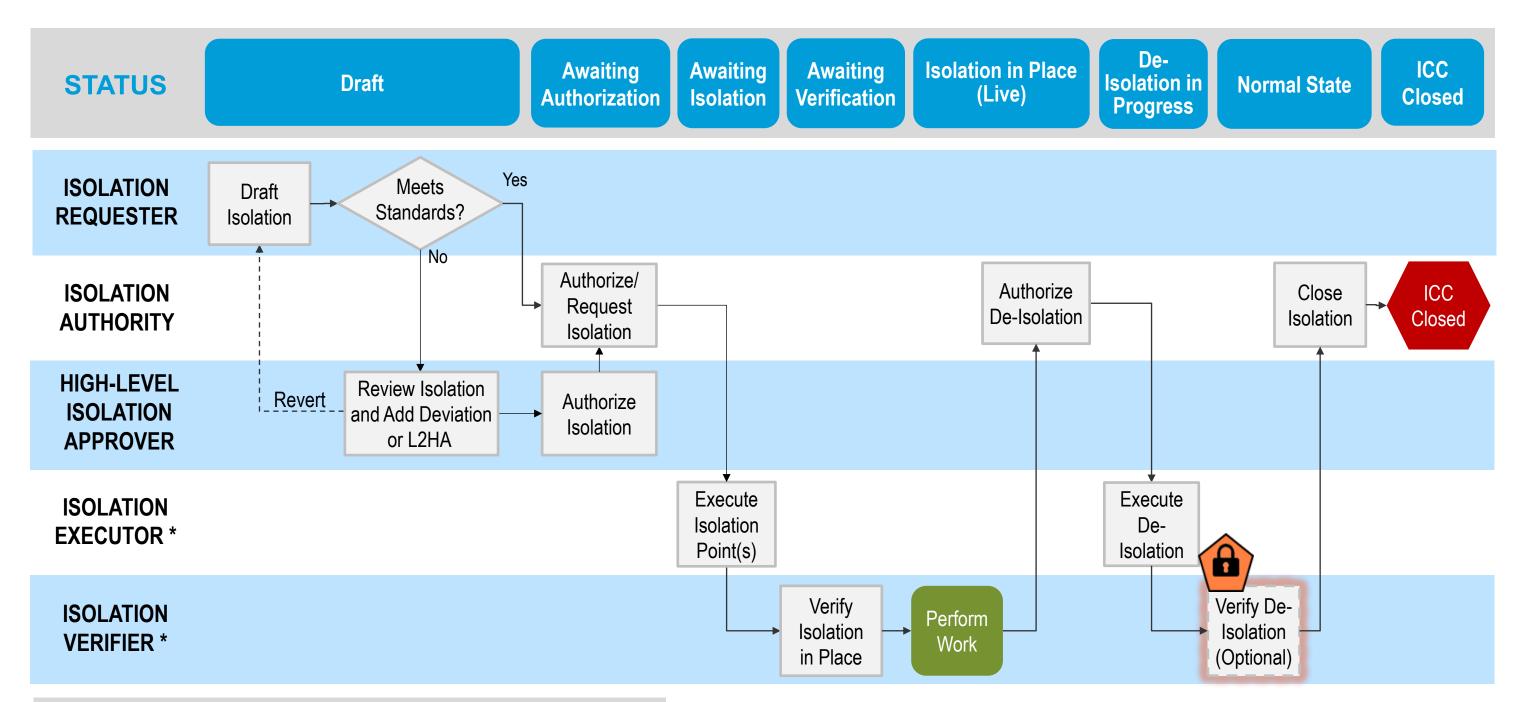
After de-isolation is confirmed, what is the status of the isolation?



ecow Tool Verifying de-isolation



Isolation Certificate workflow



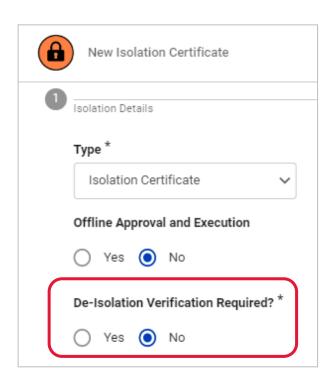
^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier

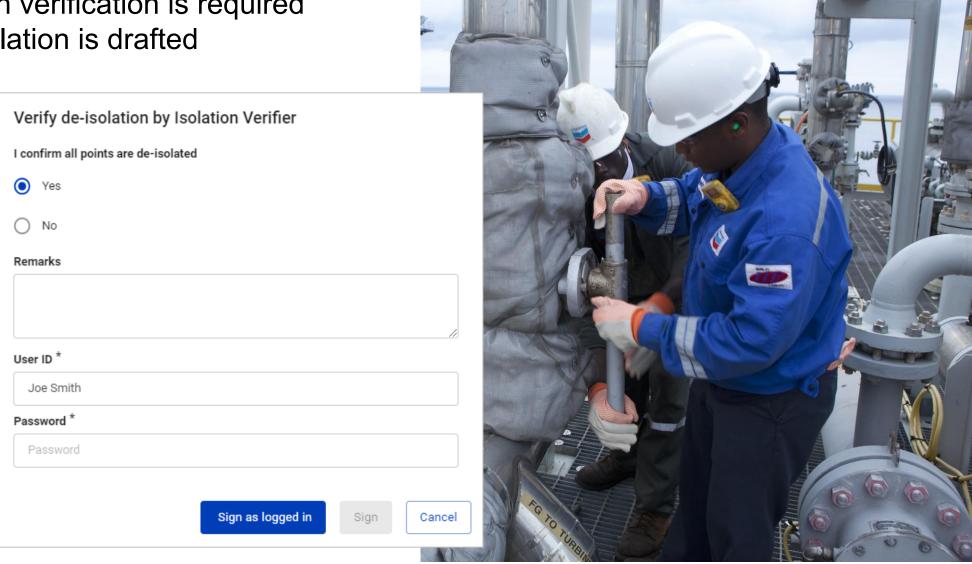


Verifying de-isolation

 Verification of de-isolation is optional for "Isolation Certificate" type isolations

 Whether or not de-isolation verification is required is determined when an isolation is drafted



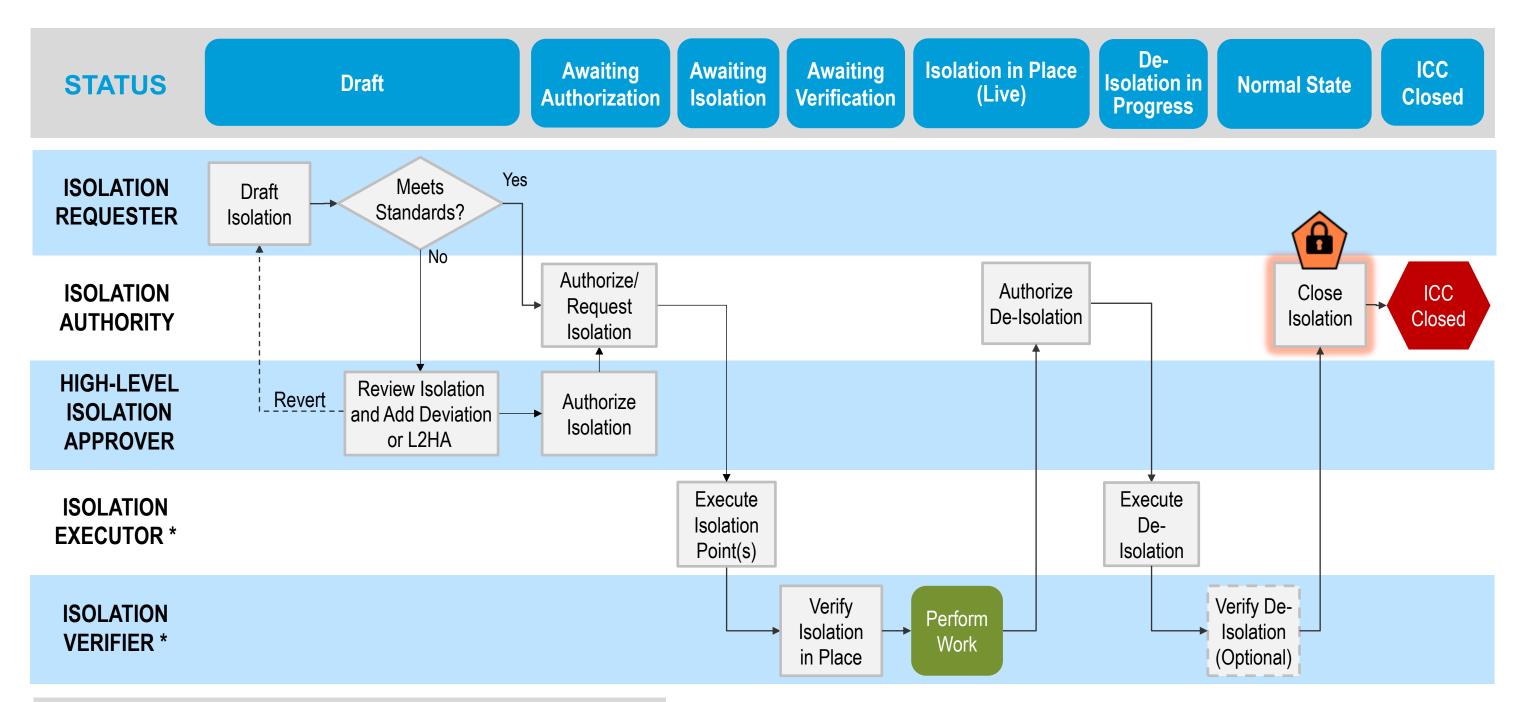




eCOW Tool Closing an isolation



Isolation Certificate workflow

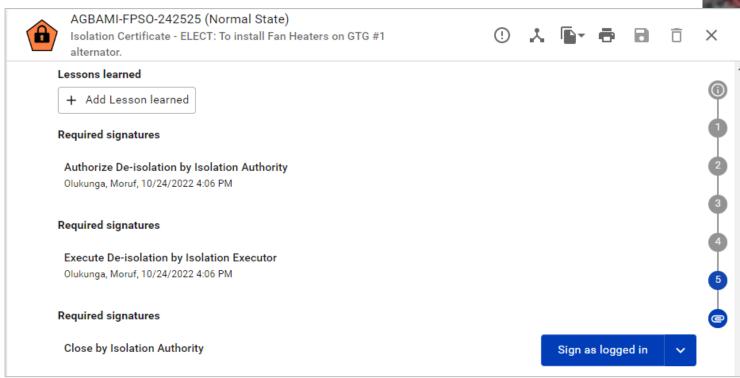


^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Closing an isolation

- The final step in the workflow is for the Isolation Authority to close the isolation
- Lessons learned may also be added when closing an isolation
- Closing the isolation will remove it from site graphics
- After closing, the isolation will move to "ICC Closed" status







Closing an isolation

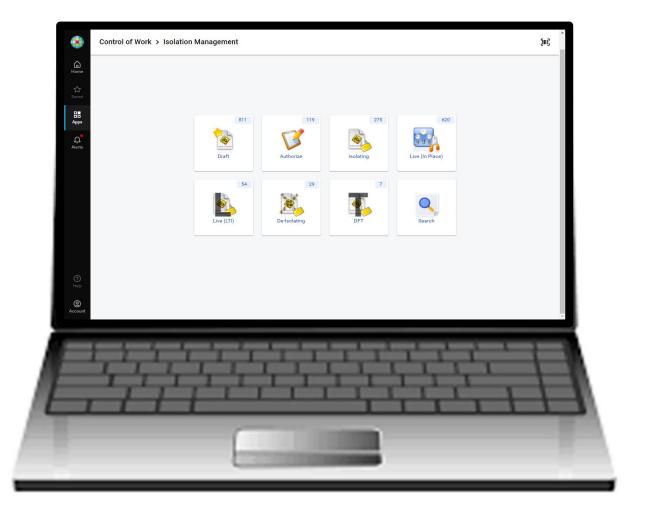
video demo



Exercise 8: Closing an isolation

Isolation Authority

- Close the isolation from the previous exercise
 - Access the isolation
 - Add a "Lesson Learned"
 - Sign to close the isolation





Questions or comments on the exercise





Knowledge check

Who is responsible for closing isolations?

What status does the isolation move to after it is closed?

Describe the symbol used to indicate an isolation is closed.

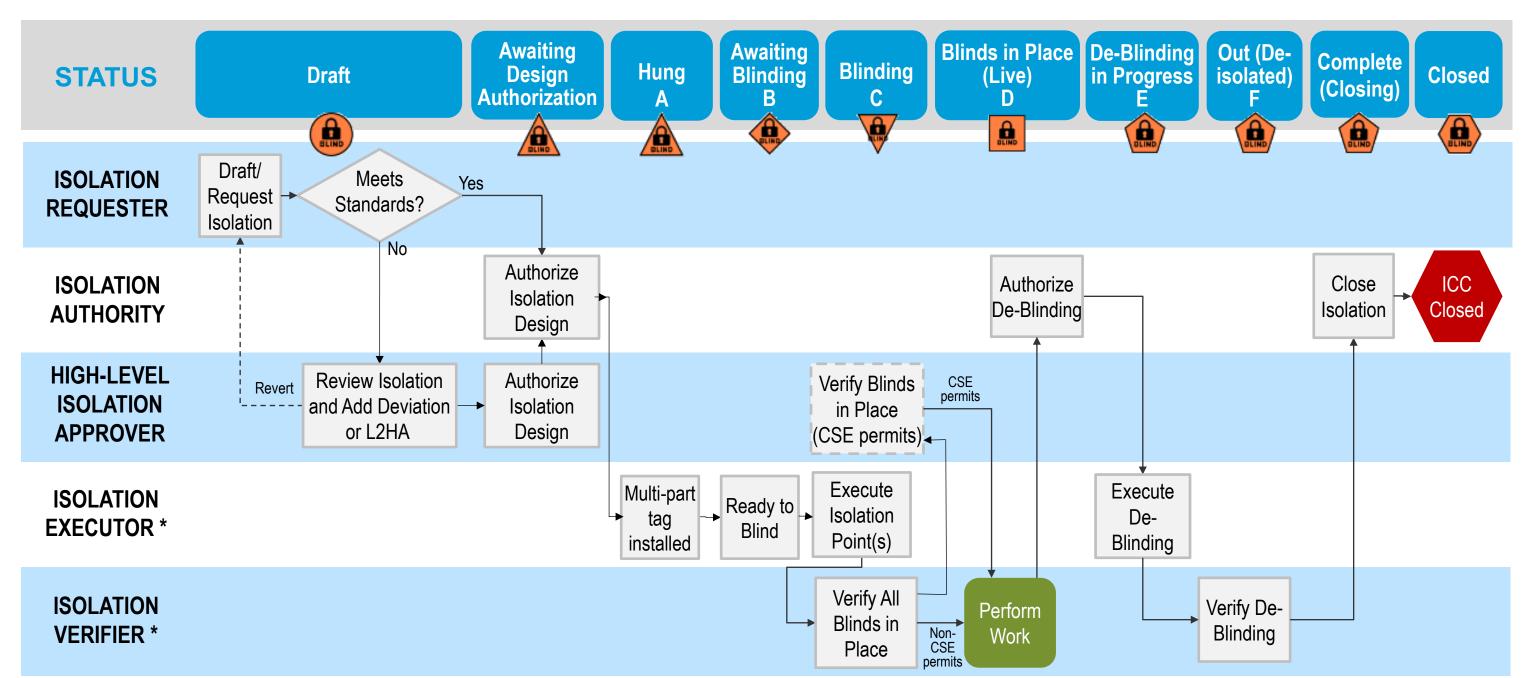


eCOW Tool Blind isolation workflow



Blind isolation workflow





^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Blinding isolations

- Another option to a general isolation certificate is a "Blinding" isolation certificate
- Blinding is used in BUs or sites that use multi-part blind tags and aids flange management
- Blinding isolations have a distinct blind isolation workflow and statuses that align with the parts on the Blind Isolation tag



Additional Business Rules for "Blinding" ICC type

- 1. Requires a 2nd "Isolation Authorization" signature to move the isolation to "Awaiting Blinding"
- 2. The "De-Isolation Verification Required" signature is required for all :Blind" type isolations
- 3. If the ICC is associated with a CSE permit, it will require an HLIA to sign off after the ICC has been "Verified" before moving to the "Live" state
- 4. Will apply the ICC Blind icon



The "Blinding" or "Isolation Certificate" ICC types may still include any of the 4 isolation point types and will follow the business rules of the Isolation type selected



Isolation status and icons for blinding

- Blinding isolations follow a similar workflow, but statuses are different
- Blinding isolations utilize the same icons with "Blind" on the bottom:

WORKFLOW STATUS	ICON	WORKFLOW STATUS	ICON
Draft / Draft for Shutdown	BLIND	Partial Permanent De-Blinding	
Awaiting Design Authorization	<u> </u>	De-blinding in Progress – E	DLIND
Hung – A	DLIND	Out (De-Isolated) – F	BLIND
Awaiting Blinding – B	PLIND	Complete (Closing)	(BLIND)
Blinding – C		Closed	BLIND
Blinds in Place (Live) – D	BLIND	Long Term Blind	

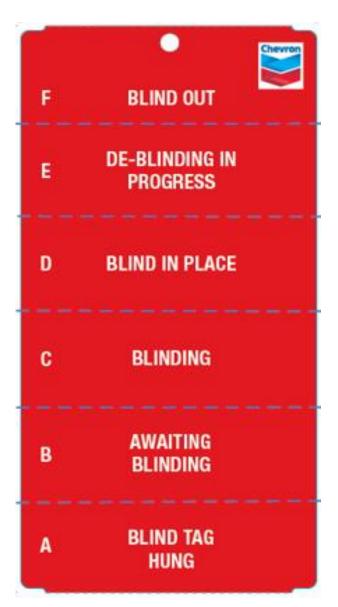


Multi-Part Blind Tag

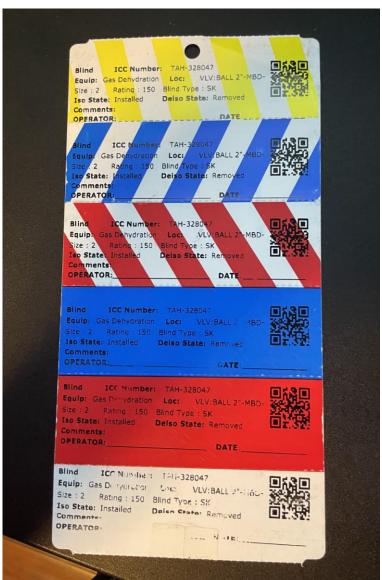


The individual Isolation point type will determine the ICC tag format to be applied.

- Process/Mechanical, Electrical, Exposed High Voltage Electrical point type applies the regular tag
- Blind point type applies the multi-part blind tag



Front of Tag



Back of Tag - Printable Side



Questions or comments on the exercise

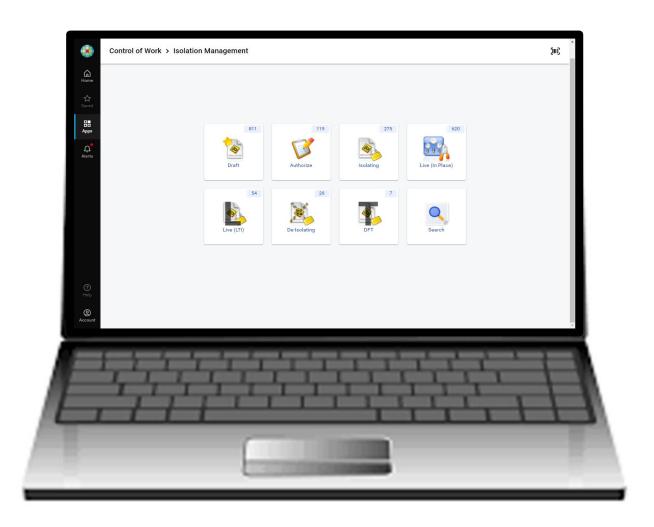




Exercise 9: Blinding Isolation (Optional Exercise)

Blind Isolation

- Access the isolation module
- Select "Blinding" as isolation type and fill in required details in Step 1
- Design isolation plan in Step 2
- Request Isolation
- Review and Authorize Isolation and then sign for 2nd Authorization
- Execute blind isolation
- Verify blind isolation
- Authorize de-blinding
- Execute de-blinding
- Verify de-blinding
- Close blind isolation



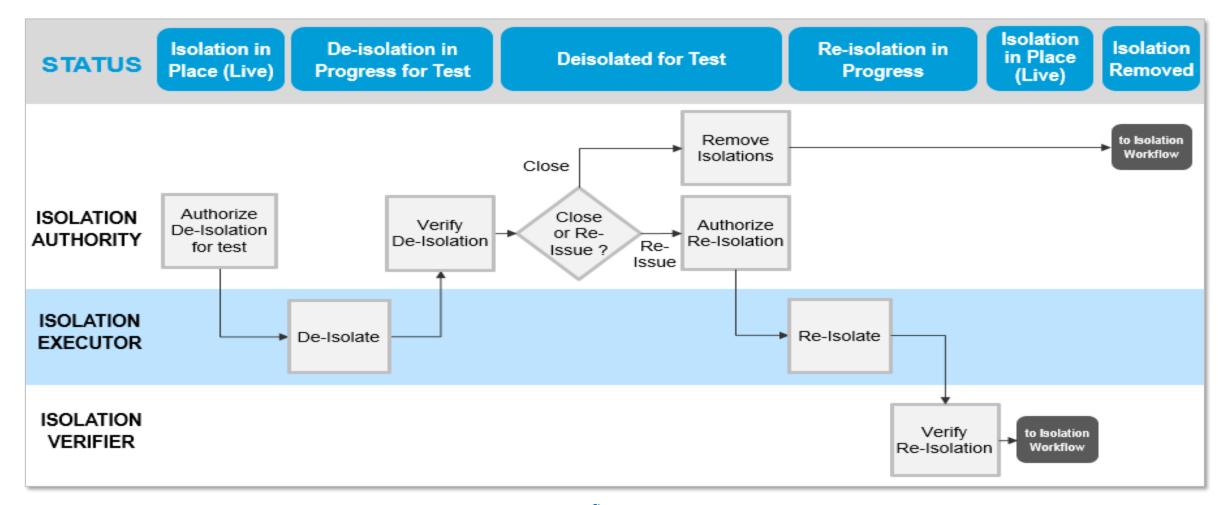


eCOW Tool De-isolation for test



De-isolation for test

- Used when there is a requirement to de-isolate all or some points on the ICC to carry out testing
- Allows isolations to be safely removed and tests carried out before full scope of work is completed
- Points required to be de-isolated may be 'marked' during the isolation design phase, but not mandatory
- 'DFT' can only be performed on an ICC when it is attached to a permit





De-isolation for test dependencies

There are dependencies between permit and isolation records when an isolation is being de-isolated for test.

Isolation Change	Permit requirement
Isolation in Place (Live) → De-Isolation for Test	Permit must be in Suspended (for test) state
De-Isolated for Test → Re-isolation	Permit must be in Suspended (for revalidation) state or Closing state





De-isolation for test

(moving to authorize de-isolation)

video demo





De-isolation for test

(then re-isolate)

video demo



eCOW Tool Long-term isolations



Long term isolations (LTI)

- Used for isolations that need to remain in place for an extended period with no activities being performed against the isolation
- ICCs can remain in 'LTI' for an indefinite time period
 - However, must be reviewed every 30 days and audited every 90 days with comments provided, as applicable
 - Reviews/audits signed for via 'Action Page' tab
- Associated permit(s) must be 'Closing' or 'Closed'
 - Job may be marked as 'Complete' or 'Incomplete'
- Isolation Authority transfers ICC into and out of 'LTI'
- Cannot transfer to LTI from Offline Isolation in Place (Live)
- LTI can be applied to both "Isolation Certificate" and "Blinding" isolation types







Long-term isolations

video demo



ecow Tool Offline Isolation Workflows



Offline Isolation Workflows

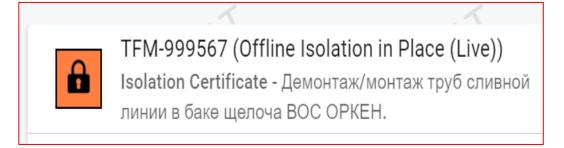
In step 1 of drafting of an ICC, the user can select "Offline Approval and Execution" for both the Isolation Certificate and Blinding workflows.

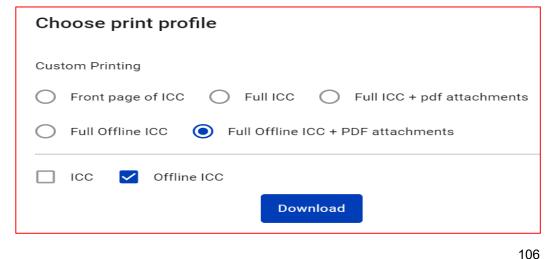
In the Offline Isolation workflow, the Isolation Authority approves the entire plan, there is not an option to approve just certain points. The "Offline ICC" print profiles are then used to print documents (ICC, P&IDs, EIL, etc.) to use in the field with "wet ink" signatures.

The isolation will move to (Offline Isolation in Place (Live)). The Isolation Executor(s) and Isolation Verifier(s) do not have a role in the eCOW tool in the offline workflow. The next step would be to "Close Offline Isolation by Isolation Authority" in the offline ICC workflows. Any Amendments, PBU, PPD, or DFT would be managed offline.

The offline ICC "Wet ink" documents should be scanned and attached to the ICC before closing the certificate.

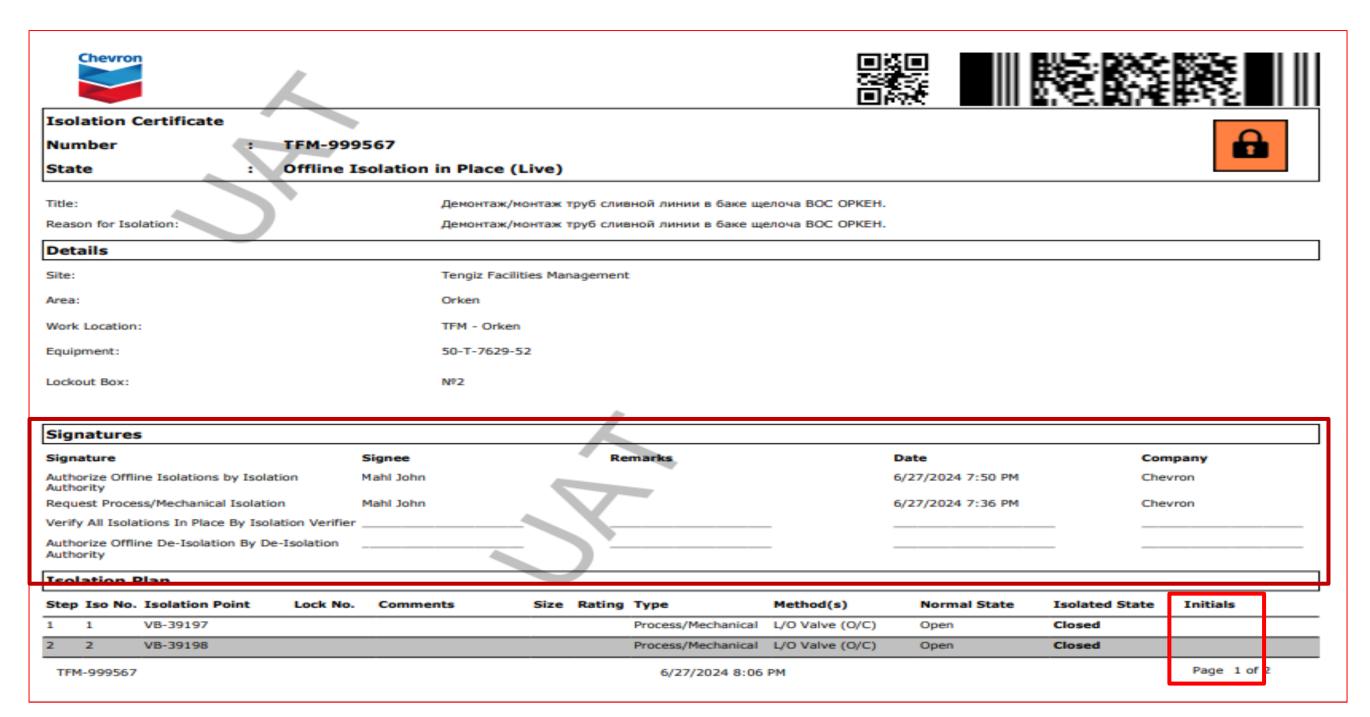






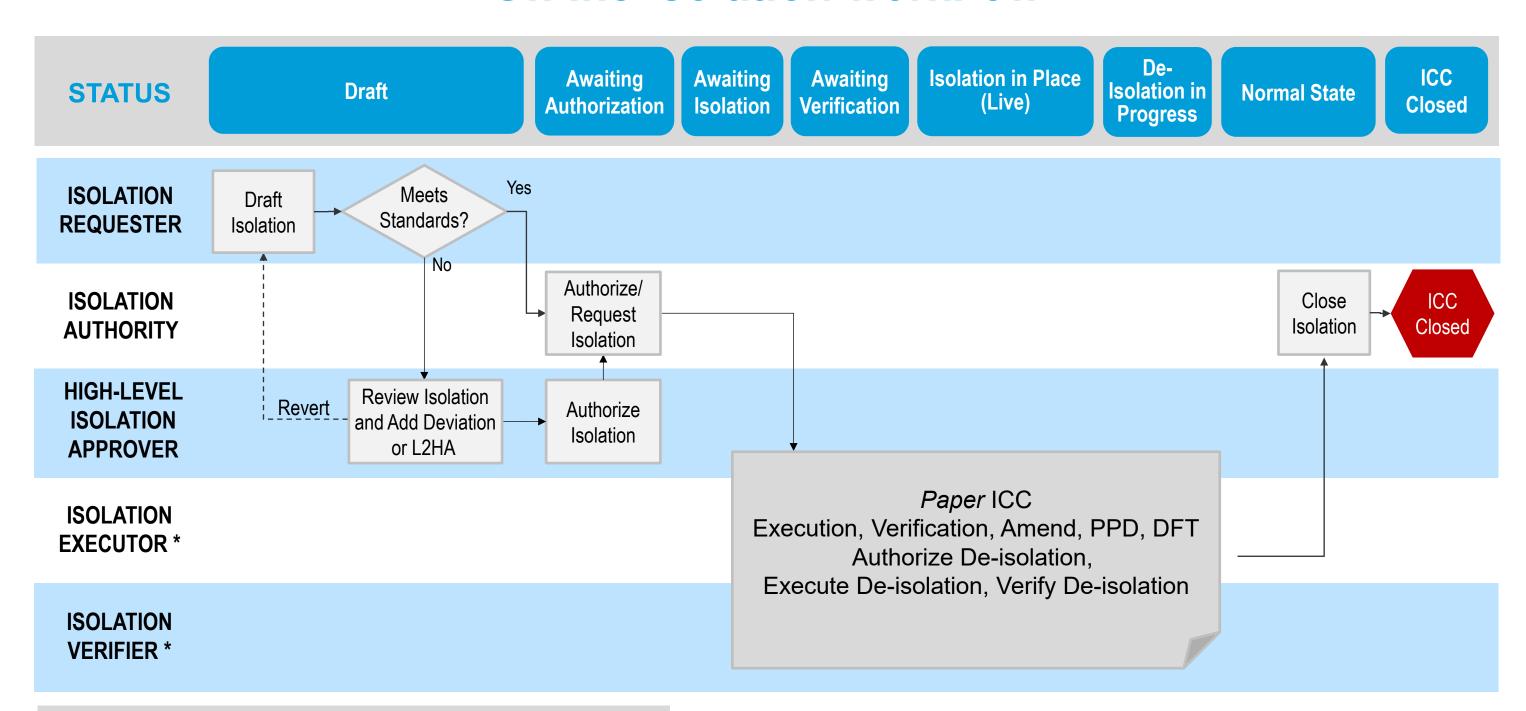


Offline Isolation Print Forms

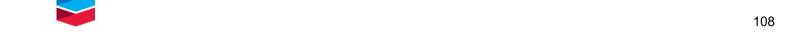




Offline Isolation workflow

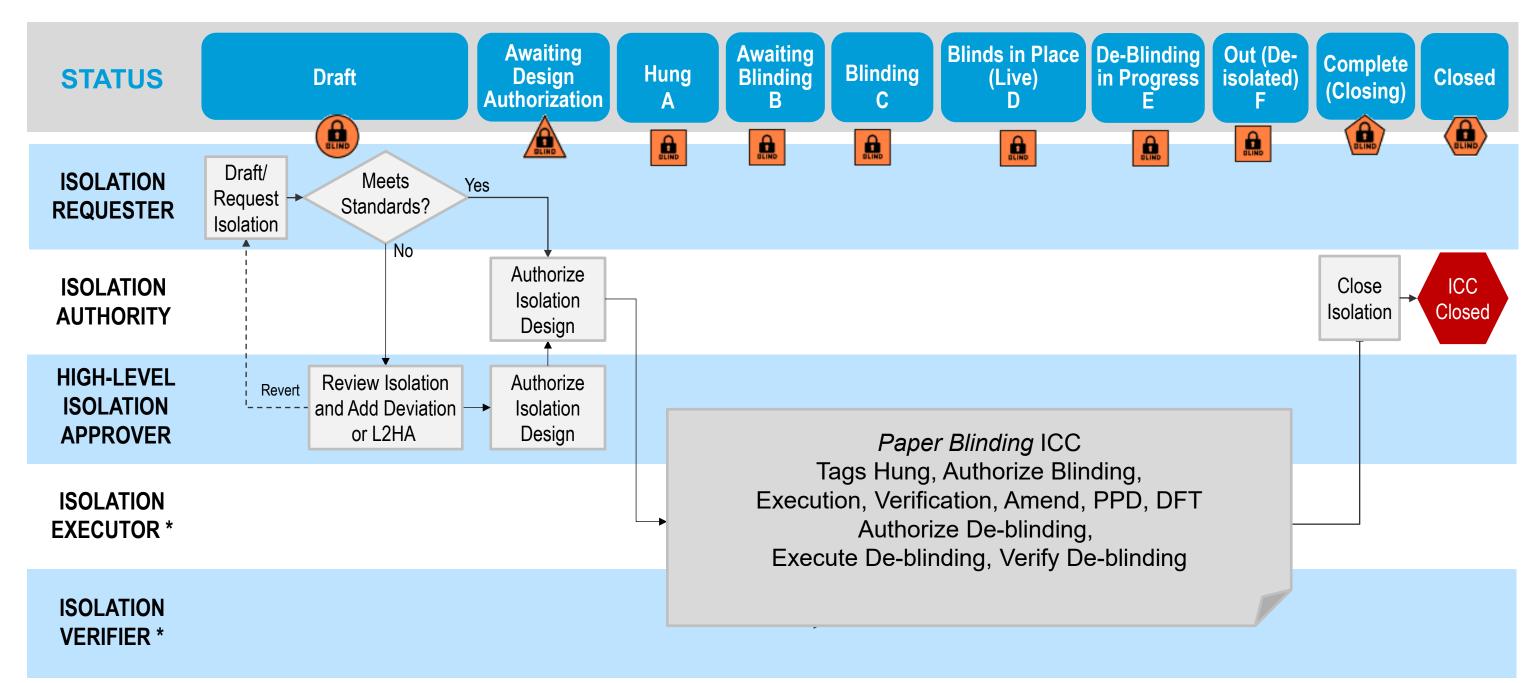


^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Offline Blind isolation workflow





^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier

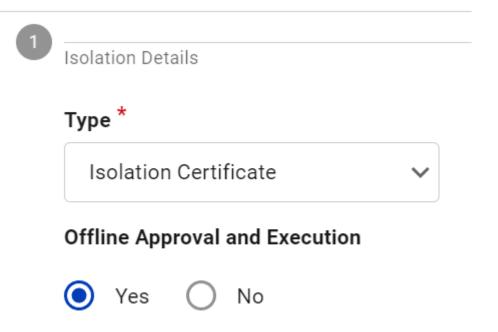


eCOW Tool

Creating isolation templates



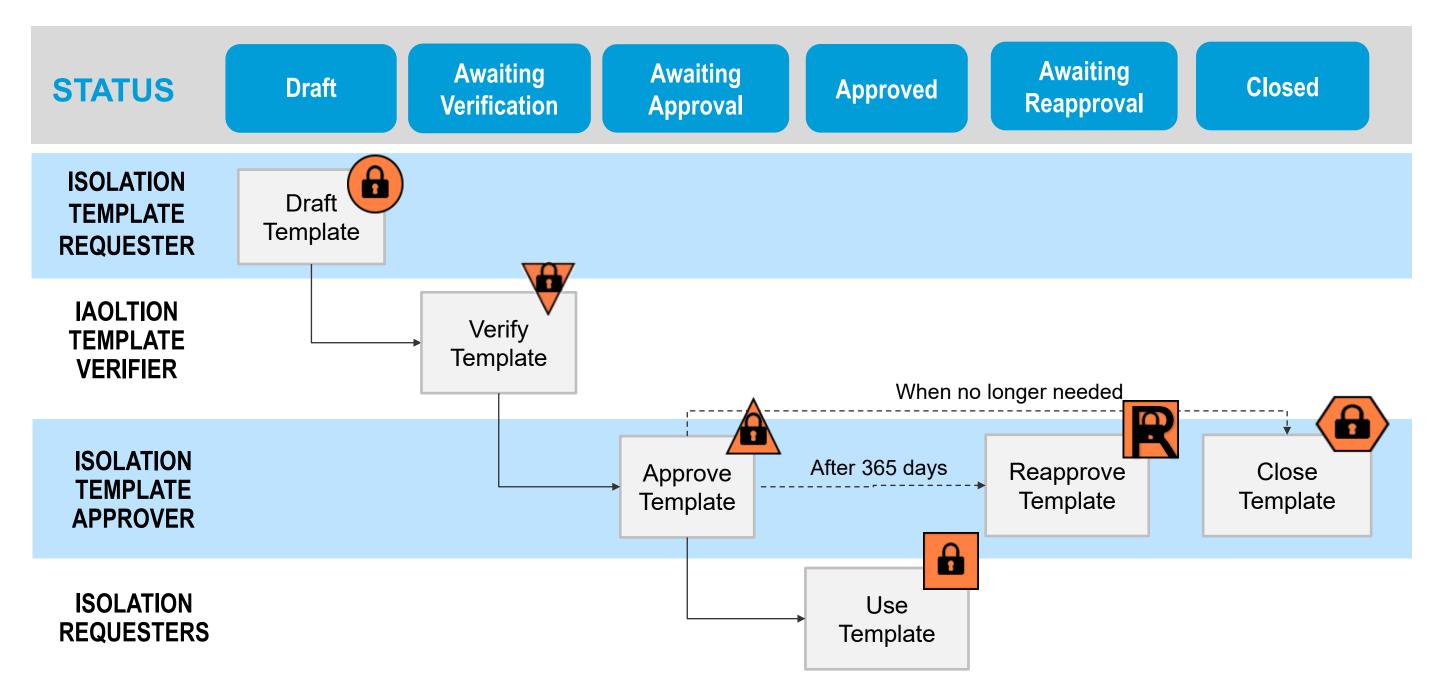
Offline Isolation Workflows





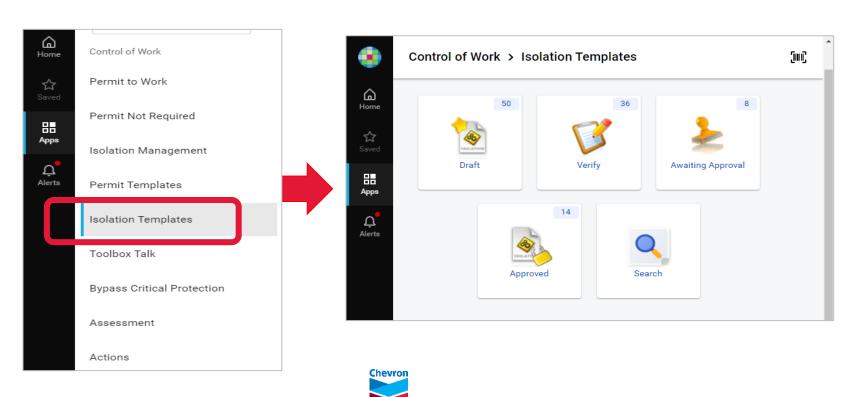
Isolation template creation workflow





Isolation templates

- Created via the 'Isolation Templates' app or from an existing ICC
- Follows a similar workflow for approval and publishing as a routine ICC
- Same field requirements as ICC, if the Equipment and / or the location is left blank, it will allow a user to select those items when creating an isolation from the approved isolation template
- Valid for 365 days
- The template is not the working document ICC created from approved template is the working document



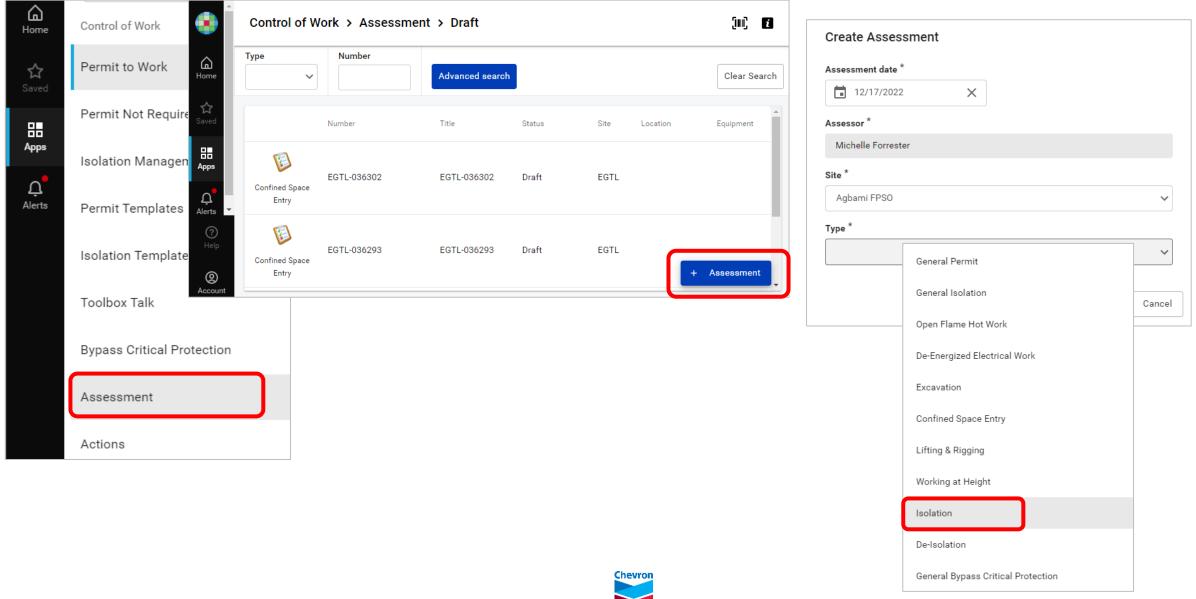
© 2023 Chevron 113

eCOW Tool Assessments



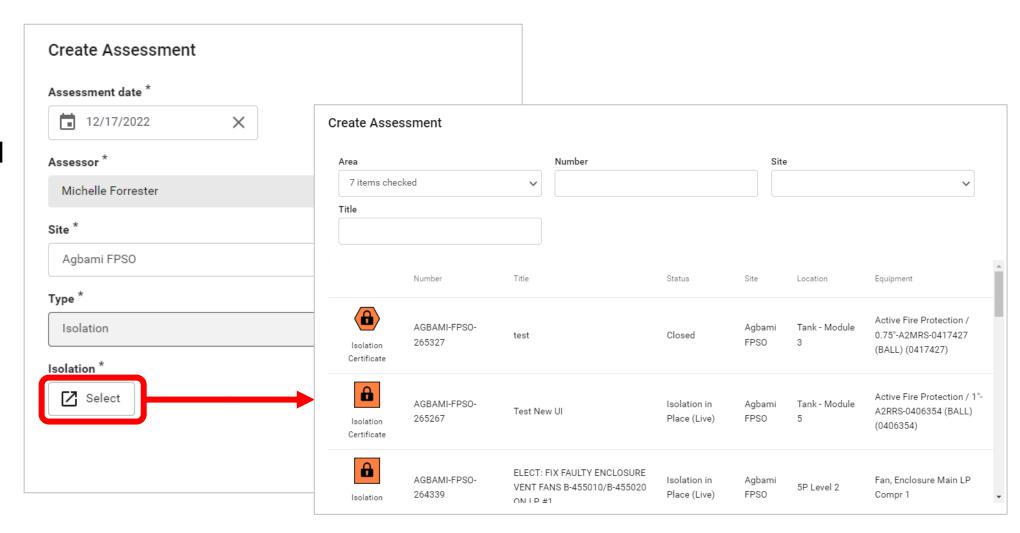
Isolation assessments

Assessments can be created to evaluate an isolation or de-isolation



Associating an assessment to an isolation

- An Assessment can be associated to a specific isolation
- A Search function is embedded in the assessment to help locate the associated isolation
- Search filters for isolations include:
 - -Area
 - Number
 - -Site
 - Title

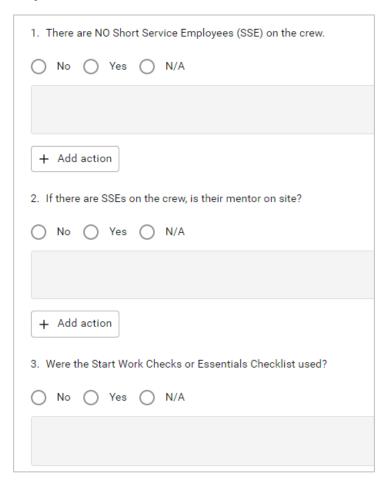




Assessment forms

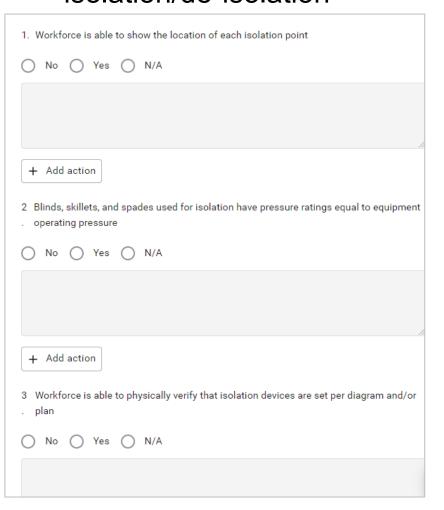
Assessment form contains 2 sections and is aligned with Corporate V&V standards.

General Assessment Same questions for all assessment types



^{*} All "No" responses require comments.

In-Field Assessment Questions specifically targeted to isolation/de-isolation

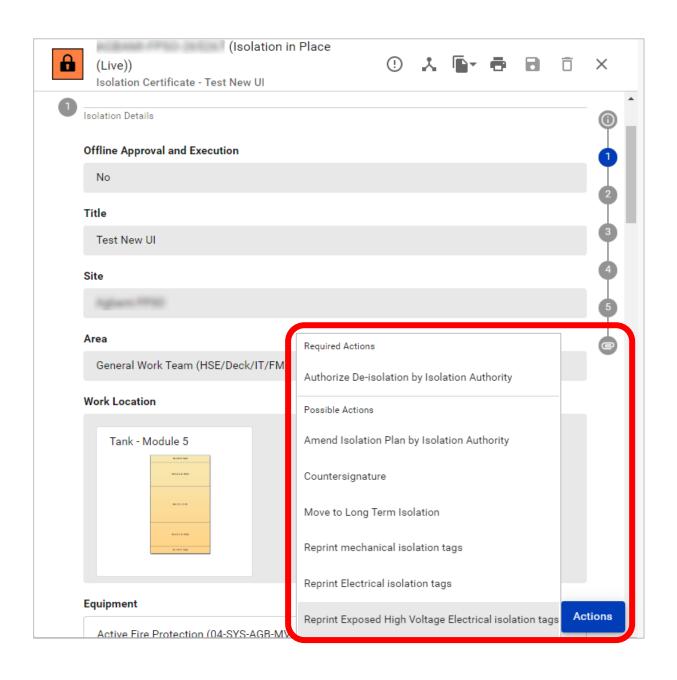


© 2023 Chevron 117

eCOW Tool Other isolation actions



Action button



- Action button appears on each isolation
- Required Actions and Possible Actions will vary based on the status of the isolation
 - Required Actions indicate an action required to move the isolation forward
 - Possible Actions indicate other options available

Let's review some of the available actions you will see in various statuses





Add a countersignature

Allows adding an additional, stand-alone signature, for any reason, if deemed appropriate

Add a file

Link or upload a file such as an external hazard analysis, isolation deviation, PID or other isolation document

Add L2HA

Starts the process of adding a Level 2 Hazard Analysis (L2HA) to the isolation

Amend isolation plan by isolation authority

Allows the isolation authority to amend or adjust the isolation plan (can only add, cannot remove)



Copy isolation certificate

Creates a new isolation confirmation certificate, copying key information from the existing isolation confirmation certificate such as title, site, work location, equipment, reason for isolation, isolation scheme and de-isolation scheme to streamline isolation confirmation certificate creation

Create a template from this certificate

Saves populated information such as title, site, work location, equipment, reason for isolation, isolation scheme and de-isolation scheme as a template to be used in creating other isolations – must be approved through template workflow

Delete certificate

Deletes an isolation confirmation certificate (Draft status only)

Mark as not copyable

Restricts an isolation confirmation certificate from being copied to create a new isolation





Reprint electrical isolation tags

Creates a printable electrical isolation tag

Reprint mechanical isolation tags

Creates a printable process/mechanical isolation tag

Reprint exposed high voltage Electrical isolation tags Creates a printable exposed high voltage electrical isolation tags isolation tag

Reprint blind isolation tags

Creates a printable blind isolation tag





Print requested electrical isolation points

Creates a printable list of remaining electrical points, available only in "Executing" and "De-isolating" states

Print requested exposed high voltage electrical isolation points

Creates a printable list of remaining exposed high voltage electrical points, available only in "Executing" and "Deisolating" states

Print requested process / mechanical isolation points

Creates a printable list of remaining process / mechanical pints, available only in "Executing" and "De-isolating" states

Print requested blind isolation points

Creates a printable list of remaining blind isolation points, available only in "Executing" and "De-isolating" states





Amend PBU by Isolation Authority'

Allows the Isolation Authority to authorize an existing PBU to be edited or removed and allows a PBU to be added to any Process / Mechanical point

Verify Isolation Points / Blinds in Place by Isolation Verifier

Allows additional Isolation Verification signatures at any point afteran isolation has been made live, this verification signature allows for "Guest" signing

Revert Isolation by Isolation Authority

Allows isolation authority to revert an isolation confirmation certificate back to the previous status in the workflow for edits or additional evaluation

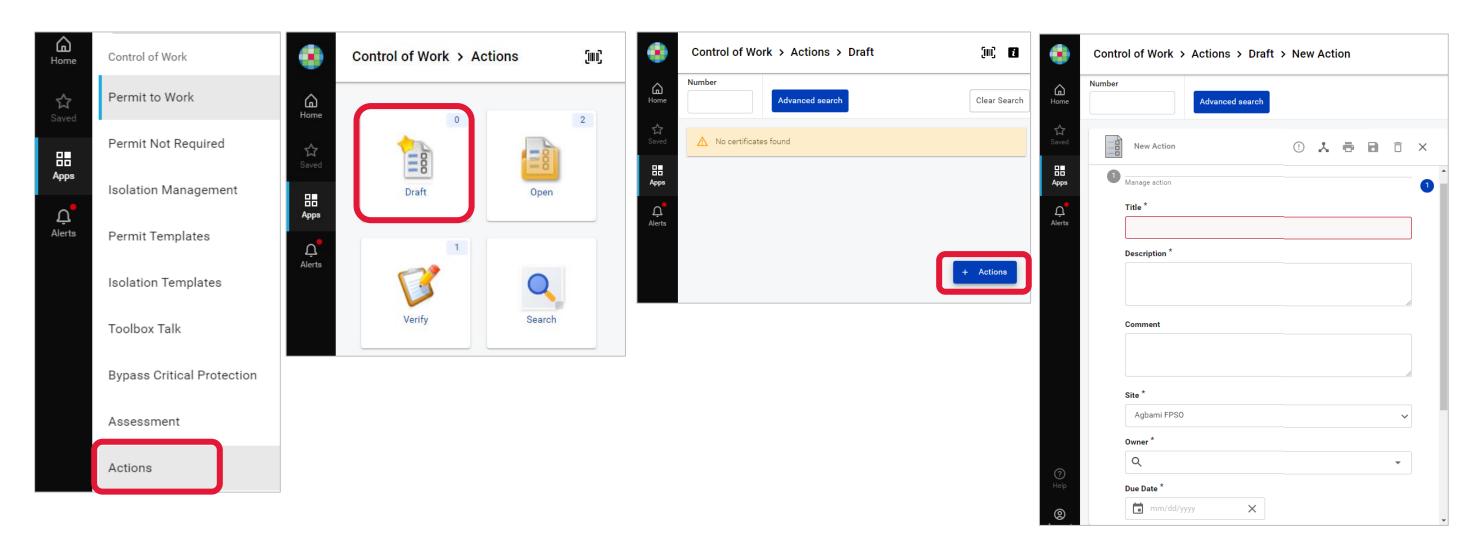
Authorize Partial Permanent
De-blinding by
Isolation Authority

Allows isolation authority to authorize isolated points to be deisolated and then the isolation to be returned to the "Live" state



Stand-alone action items

- A stand-alone action item can be created, allowing assignment of a task to a specific "Owner"
- Action items are not associated with a specific permit or isolation



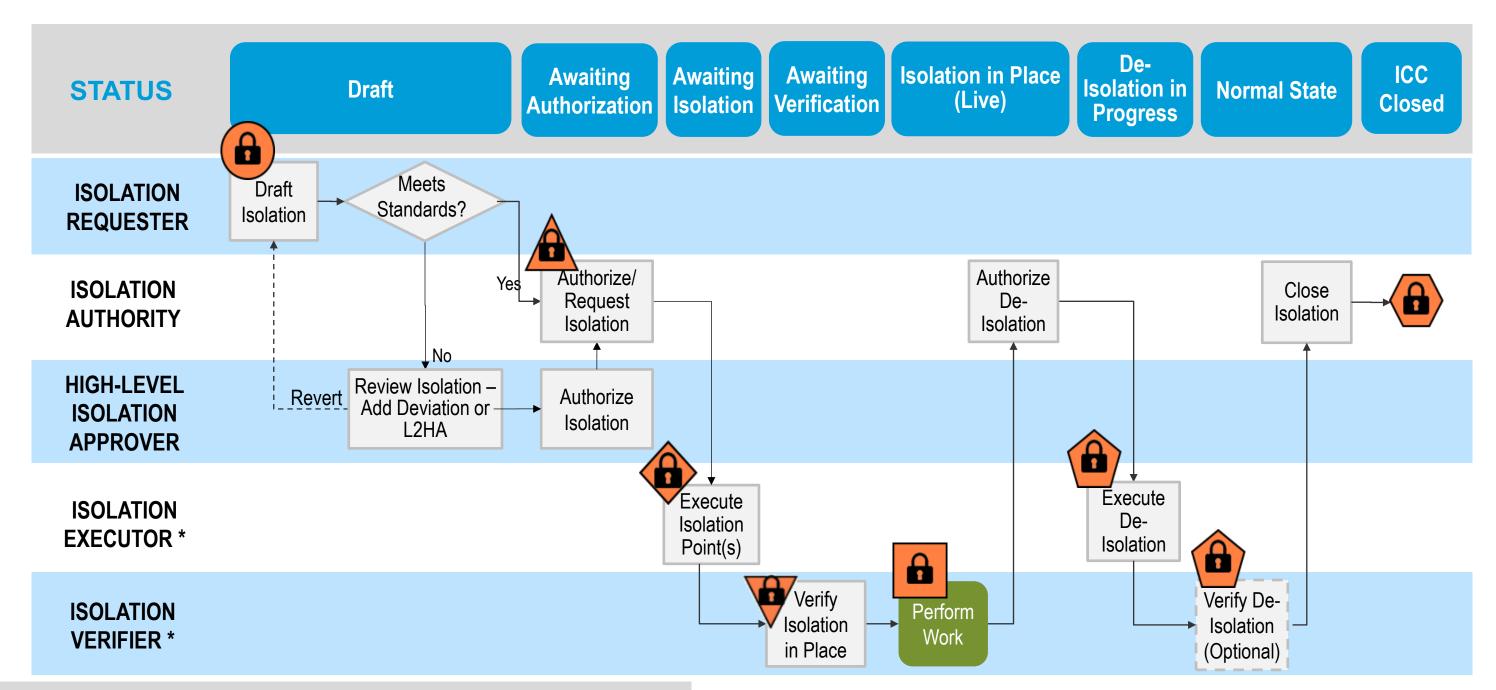


eCOW Tool Recap and Wrap-up



Isolation Certificate workflow



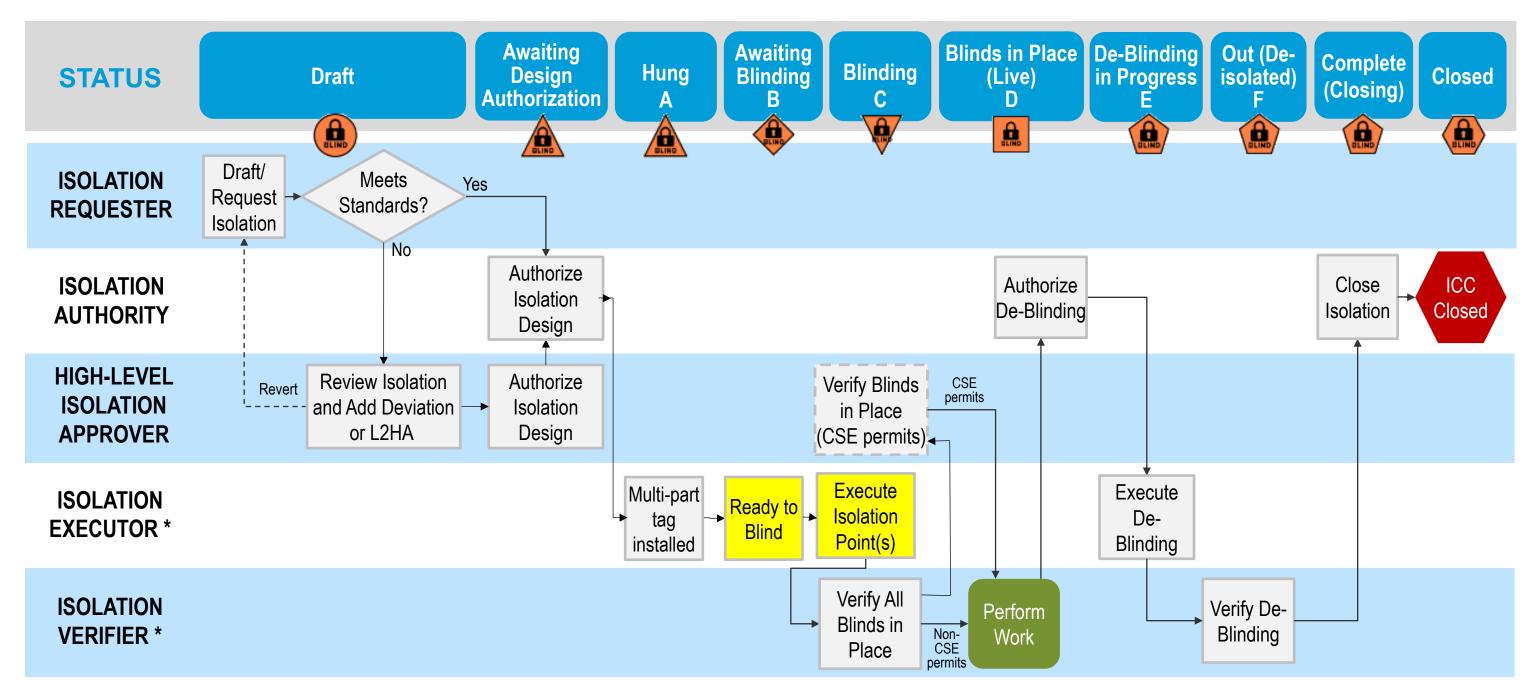


^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Blind isolation workflow





^{*} Mutually exclusive – same person may not be Isolation Executor and Isolation Verifier



Isolation roles and responsibilities

Isolation Requester



Isolation Authority



High Level Isolation Approver



Isolation **Executor**



Isolation Verifier



PRIMARY RESPONSIBILITIES

- Designs isolation scheme required
- Confirms that scheme meets required standard per type
- Authorizes isolation per type
- Adds lessons learned
- Closes ICC

- Confirm L2HA or deviation addresses non-standard isolation
- Authorizes all nonstandard isolation schemes
- Executes isolations and de-isolations and confirms points are isolated/de-isolated
- Verifies all points are isolated

CAN ALSO...

- Delete an ICC when in 'Draft' or 'Awaiting Authorization'
- Revert ICC to edit scheme
- Amend an ICC when 'Live' as needed
- De-isolate for test

Revert ICC to edit scheme



© 2023 Chevron 129

Did we meet our objectives?

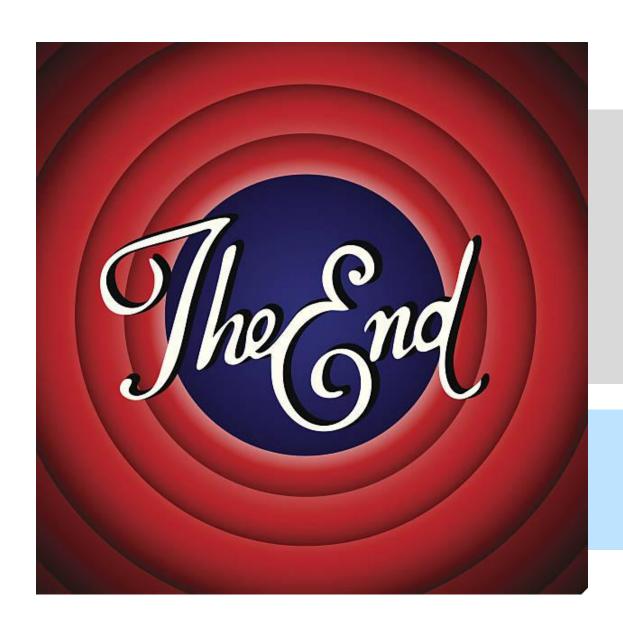
- Understand how eCOW supports isolation management
- Gain awareness on isolation workflow roles
- Become familiar with isolation types and icons
- Learn isolation workflow from creation through close
- Learn how to Amend, PPD, copy and search for ICCs
- Understand de-isolation for test and long-term isolation requirements
- Understand how to create and use isolation templates







Closing



Thank you for your participation today!

- We look forward to using the tool in our site to:
 - Minimize risk and maximize safety with enhanced control of work in our site
 - Increase effectiveness and efficiency of isolation management

In the spirit of continuous improvement, please complete the feedback form provided by your instructor

