



Prepared by ESO Solutions, Inc.

.....

State of Hawaii Validation Guide

December 29, 2025

ESO Confidential Information - Customer Use Only

Hawaii 2025 Validation Rules

What this document is: A plain-language guide to the Hawaii 2025 validation rules. Each rule explains what triggers the message (preconditions), what the system is checking (validator + parameters), and practical steps to resolve it.

How to read each rule: Preconditions describe when the rule applies. Parameters are the configured values that control the check (for example, a required menu option or a required code format).

Understanding Severity Levels

Severity is the importance level configured in the rule set. In this export, values range from 3 (lowest/warning) to 1 (highest).

Rule Index

Use this index to quickly find a rule, then scroll to the detailed explanation.

Rule ID	Severity	Field	Short description
Act10001-00002	2	Diagnosis	Diagnosis missing - Trauma Team Activation must be Yes
Act10001-00004	2	Diagnosis	Diagnosis required when there is no activation
Act10004-00001	2	Activation Level	Activation Level is required (cannot be blank)
Act10004-00004	2	Activation Level	Activation Level must be a specific value (not NA/NKNR)
Agncy10020-00001	2	Transport Role	Agncy10065.Agncy10020 is required (cannot be blank)
DEM10018-00001	1	Sex at Time of Incident	Must select a valid option
DEM10018-00002	2	Sex at Time of Incident	Dem10018 is required (cannot be blank)
DEM10018-00003	2	Sex at Time of Incident	Not Applicable is not allowed
DIAGNSGRP10097-00001	3	ICD10 Diagnosis	At least one diagnosis entry required (state inclusion check)
Injry10030-00001	2	Chief Complaint	Injry10030 is required (cannot be blank)

SuppF10002-00003	1	Activity Code	Activity Code must follow ICD-10-CM format
SuppF10002-0001	2	Activity Code	At least one Activity Code entry is required
Act10001-00002	2	Diagnosis	Diagnosis missing - Trauma Team Activation must be Yes

Rule Explanations

Act10001-00002 - Diagnosis missing - Trauma Team Activation must be Yes

Plain-language summary: If Diagnosis is blank, the record must indicate Trauma Team Activation = Yes (this is tied to state inclusion criteria).

When you'll see this validation (preconditions)

- Diagnosis is blank (no value entered).
- Trauma Team Activation is set to No.

Parameters (and what they mean)

- Expected menu option: Yes.

How to resolve / what to do

- Confirm whether a Trauma Team Activation occurred for this patient.
- If a Trauma Team Activation occurred, set Trauma Team Activation to Yes.
- If a Trauma Team Activation did not occur, enter an appropriate Diagnosis (do not leave it blank).

Technical details (for reference)

Severity	2
Field reference	Team Activated
Validator	SpecificMenuItemIsInArray
Rule parameters	menuOption=Yes
Preconditions	Diagnosis is blank; Team Activated = No
System message text	Diagnosis Element is blank. Trauma Team Activation Must Equal Yes. (State Inclusion Criteria)

Act10001-00004 - Diagnosis required when there is no activation

Plain-language summary: If there is no Trauma Team Activation, a Diagnosis must be entered.

When you'll see this validation (preconditions)

- Diagnosis is blank (no value entered).
- You are completing the Hospital Timeline section.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Confirm whether a Trauma Team Activation occurred for this patient.
- If a Trauma Team Activation occurred, set Trauma Team Activation to Yes.
- If a Trauma Team Activation did not occur, enter an appropriate Diagnosis (do not leave it blank).

Technical details (for reference)

Severity	2
Field reference	Team Activated
Validator	FieldIsValue
Rule parameters	None
Preconditions	Diagnosis is blank; If In Hospital Timeline
System message text	If there is no activation, must have a diagnosis

Act10004-00001 - Activation Level is required (cannot be blank)

Plain-language summary: Activation Level is required and cannot be left blank.

When you'll see this validation (preconditions)

- You are completing the Hospital Timeline section.
- Trauma Team Activation is set to Yes.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Enter a value for Activation Level (it cannot be blank).

Technical details (for reference)

Severity	2
Field reference	Activation Level
Validator	FieldIsValued
Rule parameters	None
Preconditions	If In Hospital Timeline; Team Activated = Yes
System message text	Element Cannot be blank

Act10004-00004 - Activation Level must be a specific value (not NA/NKNR)

Plain-language summary: When Trauma Team Activation is Yes, Activation Level must be a specific value (not NA or NKNR).

When you'll see this validation (preconditions)

- You are completing the Hospital Timeline section.
- Trauma Team Activation is set to Yes.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Select a specific value for Activation Level; do not use NA or NKNR/Not Known selections for this field.

Technical details (for reference)

Severity	2
Field reference	Activation Level
Validator	FieldDoesNotEqualNotKnownOrNotApplicable
Rule parameters	None
Preconditions	If In Hospital Timeline; Team Activated = Yes
System message text	Activation Level must not be NA or NKNR

Agncy10020-00001 – Transport Role is required (cannot be blank)

Plain-language summary: Transport Role is required and cannot be left blank.

When you'll see this validation (preconditions)

- Agency Mode of Arrival is coded as 1, 2, or 3.
- You are completing the Prehospital Timeline section.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Enter a value for Transport Role (it cannot be blank).
- If you do not have agency information, verify that Mode of Arrival is coded correctly (this rule only applies to specific arrival modes).

Technical details (for reference)

Severity	2
Field reference	Transport Role
Validator	FieldIsValue
Rule parameters	None
Preconditions	Agency Mode of Arrival is 1,2,or 3; If Prehospital Timeline
System message text	Element cannot be blank

DEM10018-00001 – Must select a valid option

Plain-language summary: Sex at Time of Incident must be a valid option from the configured menu/drop-down.

When you'll see this validation (preconditions)

- No specific preconditions are listed. This validation can run any time the record is validated.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Select a value for Sex at Time of Incident from the drop-down/menu list. Do not free-type values that are not offered.
- If the value is coming from an interface/import, verify the imported value matches the allowed menu options.

Technical details (for reference)

Severity	1
Field reference	Sex at Time of Incident
Validator	ValuesValidMenuItem
Rule parameters	None
Preconditions	None listed
System message text	Value is not a valid menu option

DEM10018-00002 – Sex at Time of Incident is required (cannot be blank)

Plain-language summary: Sex at Time of Incident is required and cannot be left blank.

When you'll see this validation (preconditions)

- No specific preconditions are listed. This validation can run any time the record is validated.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Enter a value for Sex at Time of Incident (it cannot be blank).

Technical details (for reference)

Severity	2
Field reference	Sex at Time of Incident
Validator	FieldIsValue
Rule parameters	None
Preconditions	None listed
System message text	Element cannot be blank

DEM10018-00003 - Not Applicable is not allowed

Plain-language summary: Sex at Time of Incident cannot be set to Not Applicable; select a specific value.

When you'll see this validation (preconditions)

- No specific preconditions are listed. This validation can run any time the record is validated.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Select a specific value for Sex at Time of Incident instead of Not Applicable.

Technical details (for reference)

Severity	2
Field reference	Sex at Time of Incident
Validator	FieldDoesNotEqualNotApplicable
Rule parameters	None
Preconditions	None listed
System message text	Element cannot be 'Not Applicable'

DIAGNSGRP10097-00001 - At least one diagnosis entry required (state inclusion check)

Plain-language summary: At least one diagnosis entry is required; verify the patient meets state inclusion criteria if none are entered.

When you'll see this validation (preconditions)

- No specific preconditions are listed. This validation can run any time the record is validated.

Parameters (and what they mean)

- Within the list/array, the system looks at field reference: ICD10 Diagnosis Code .
- Each list item is checked using: FieldIsValue. (For example, FieldIsValue means the field cannot be blank.)

How to resolve / what to do

- Add at least one entry to the list and complete the required fields for that entry.
- At minimum, make sure ICD10 Diagnosis Code is filled in for at least one list item.

Technical details (for reference)

Severity	3
Field reference	ICD10 Diagnosis Code
Validator	ArrayHasAnyValidItem
Rule parameters	arrayElementFieldRef=DIAGNSGRP10009; arrayElementValidator=FieldIsValue
Preconditions	None listed
System message text	Element is blank, Verify patient meets state inclusion criteria

Injry10030-00001 – Chief Complaint is required (cannot be blank)

Plain-language summary: Field Chief Complaint is required and cannot be left blank.

When you'll see this validation (preconditions)

- No specific preconditions are listed. This validation can run any time the record is validated.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Enter a value for Chief Complaint (it cannot be blank).

Technical details (for reference)

Severity	2
Field reference	Chief Complaint
Validator	FieldIsValued
Rule parameters	None
Preconditions	None listed
System message text	Element cannot be blank

SuppF10002-00003 - Activity Code must follow ICD-10-CM format

Plain-language summary: Activity Code must be in the ICD-10-CM Y93.X or Y93.XX format.

When you'll see this validation (preconditions)

- No specific preconditions are listed. This validation can run any time the record is validated.

Parameters (and what they mean)

- Technical format check (regex): (^Y93.[A-Z0-9]{1,2}\$).
- Plain-language format: Y93. followed by 1-2 letters/numbers (A-Z or 0-9).
- Examples: Y93.A, Y93.1, Y93.A1, Y93.0A.

How to resolve / what to do

- Enter an Activity Code in the required ICD-10-CM format.
- Format: Y93.X or Y93.XX where X is A-Z or 0-9 (for example: Y93.A, Y93.1, Y93.A1).
- Remove extra spaces or trailing characters if you are copying/pasting.

Technical details (for reference)

Severity	1
Field reference	ICD10 Activity Code
Validator	StringMatchesRegex
Rule parameters	regex="(^Y93.[A-Z0-9]{1,2}\$)"
Preconditions	None listed
System message text	Activity Code must be Y93.X/Y93.XX (where X is A-Z or 0-9) (ICD-10 CM only)

SuppF10002-0001 - At least one Activity Code entry is required

Plain-language summary: At least one Activity Code entry is required; the list cannot be empty.

When you'll see this validation (preconditions)

- No specific preconditions are listed. This validation can run any time the record is validated.

Parameters (and what they mean)

- No additional parameters are configured for this rule.

How to resolve / what to do

- Add at least one entry for Activity Code (the list cannot be empty).

Technical details (for reference)

Severity	2
Field reference	ICD10 Activity Code
Validator	ArrayIsValue
Rule parameters	None
Preconditions	None listed
System message text	Element cannot be blank

2026 Patient Registry Software Change Log

HAWAII SPECIFIC (2025):

For 2025, Hawaii had the following NTDB rules **removed** from their submission org. These would remain removed for 2026 unless further direction from the state is provided:

Rule ID	Severity	Output Message	Field
6141	2	Element cannot be 9,10,11,12,or 99 when Inter-Facility Transfer is "2. No". Record does not meet inclusion criteria.	Emergency Department Discharge Disposition
6141-1	2	Element cannot be 9,10,11,12,or 99 when Inter-Facility Transfer is "2. No". Record does not meet inclusion criteria.	Emergency Department Discharge Disposition
8701	2	Invalid value (ICD-10-CM only)	ICD10 Diagnosis Code
8703	2	At least one diagnosis must be provided	ICD10 Diagnosis Code
21007	2	Element cannot be blank	2015 AIS Code
1506	2	Not Applicable must be reported if Work Related is Element Value 1, Yes	Occupational Industry
1606	2	Not Applicable must be reported if Work Related is Element Value 1, Yes	Occupation

ESO Internal Changes for NTDB Validations & Submissions (2026):

Issue	Action
Airbag menu mappings incorrect for NTDB	Remapped to align with NTDB Data Dictionary
Arrived From' Field and Logic	Removed from NTDS
ED Discharge Disposition Values 1. Emergency Department and child values	Added warning for any ED timelines containing disposition value of "1" (other than 1.1, Trauma Resuscitation Room)
Timeline precondition	Verified "In Hospital timeline only" precondition where appropriate
Discharge Disposition, Discharge Order Date, Discharge Order Time	Not Applicable will be submitted on behalf of users if patient leaves from the ED. User may leave blank or record values, but NA will be submitted for them.
Gestational Diabetes	Gestational Diabetes will no longer roll up to Diabetes Mellitus for NTDB reporting.
Team member	Add level 3 'Are you sure there are no team members?' if left blank AND there is a trauma activation
Emergency Department Discharge Disposition	LTCH and Psychiatric Hospital added as parent values to Emergency Department Disposition and Discharge Disposition
Demographic Street	Removed from subscription status
Demographic Apt/Suite/Room	Removed from subscription status
Trauma Activation Level	Removed from subscription status
Elapsed Activation Time From Patient Arrival (min)	Removed from subscription status
Intensive Care Disposition	Removed from subscription status

Intensive Care Discharge Order Date	Removed from subscription status
Intensive Care Discharge Order Time	Removed from subscription status
Intensive Care Arrival Location	Removed from subscription status
Patient Occupation/ Patient Occupational Industry	Validation will only fire if 'Did Injury Occur at Work' = Yes. If = No, user can leave blank or enter values and Not Applicable will be submitted on their behalf
Emergency Department Discharge Disposition Mapping 13.3, Physical Medicine and Rehabilitation Hospital 13.4, Psychiatric Hospital and 13.5 (Like LTCH)	Update mapping to 6.0ther (jail, institutional care facility, mental health, etc)
If ED Discharge Date is earlier than Hospital Procedure Start Date/Time then it will not be reported (Rules 6313-1 and 6412-1)	Added warning to alert users if a patient who leaves from the ED has procedures entered after their ED Discharge Order Date/Time. User may enter these for local collection, but they will not go to national submission
Warning if 'Ventilator Dependence = Yes' and Total Ventilator Days is blank	Level 3 warning to be added to ensure successful submission
Direct Admission (Y/N) added as required field	Added for ESO functionality to ensure successful submission
Team Activated	Remove from subscription status, remove validation and logic around it. All activation logic driven off Highest Activation.
Height and Weight	Corrected validation to allow for entry of height and weight after 30 minutes of arrival.
Rule EVNTGRP10001-10035 ICU Timeline is required for	Event validation was removed

Unplanned Admission to ICU = Yes	
Procedures	8803-1 added, Level 3 warning Are you sure there are no hospital procedures? If there are no hospital procedures NA will be sent for submission. 8803 removed.
Highest Activation	14202 removed. Act10026-00001 is level 3 when no Highest Activation that “No” is sent on submission
Team Member Service	Added cannot be blank when Highest Activation is yes to ensure correct submission values for Trauma Surgeon Arrival Date and Time
Death Date and Time	Validation added if ED Discharge Dispo or Hospital Discharge Dispo= 15 Disch. Status, Death date/time must be entered to ensure correct submission
Transport Role	Validation added to ensure accurate submissions
Age at Time of Incident and Age Units at Time of Incident	Validation 0703 and 0803 will only fire when DOB is NKNR

National Trauma Data Bank (NTDB) 2026 Changes:

Data Dictionary Element	Discrepancy / Comment & Action
Date of Birth	Was Rule ID 0601 Level 1 Invalid Value to: Rule ID 0601 Level 1 Date is not valid — Verbiage update to reflect ACS.
Gender-Affirming Hormone Therapy	Rule ID changes 1301→1331, 1302→1332, 1303→1333, 1340→13340.
Injury Incident Date	Was Rule ID 1204 Level 2 Injury Incident date is earlier than Date of Birth to: Rule 1204 Level 2 Injury Incident Date cannot be earlier than Date of Birth — Verbiage update to reflect ACS.
ICD-10 Primary External Cause Code	Multiple rule updates: Rule ID 8908, 8904, 8905. Verbiage, level, and new rule changes.
ICD-10 Additional External Cause Code	Rule ID 9102 wording update — Verbiage update to reflect ACS.
Intubation Prior To Arrival	Rule ID changes 2601→2661, 2640→26640.
Intubation Location	Rule ID changes 2701→2771, 2703→2773, 2704→2774.
Primary Medical Event	Rule ID changes 2501→2551, 2502→2552.
Bronchopulmonary Dysplasia/Chronic Lung Disease	Rule ID changes 6301→6331, 6302→6332, 6340→63340.
Trauma Surgeon Arrival Time	New Rule IDs 14405, 14406.
ED Discharge Date	Rule ID 6307 verbiage updated.
ED Discharge Time	Rule ID 6407 verbiage updated.

ICD-10 Hospital Procedures	Rule ID 8804 verbiage updated.
Functionally Dependent Health Status	New validation tied to Ventilator Dependence.
Unplanned Return to OR	Rule IDs 22601, 22602, 22603 added.
Unplanned Visit to OR	Rule IDs 21701, 21703, 21704 retired.
Hospital Discharge Date	Rule IDs 7715–7719 verbiage updates.
Hospital Discharge Time	Rule IDs 7813–7817 verbiage updates.