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TRAINING AND EVALUATION OUTLINE

T&EO-MSS



TRAINING AND EVALUATION OUTLINES (T&EO)

Maven Smart System (MSS) Training Program

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
(USAREUR-AF)
Wiesbaden, Germany

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MAVEN SMART SYSTEM (MSS) TRAINING PROGRAM

USAREUR-AF Operational Data Team — C2DAO

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HOW TO USE T&EOS

Each T&EO defines the conditions and standards for a specific evaluated task. The evaluator uses these outlines to: 1. Brief the trainee on the task conditions before the evaluation 2. Score each performance measure as GO or NO-GO 3. Determine overall task result

Scoring: - Any step marked **[CRITICAL]** = automatic NO-GO if failed, regardless of other performance - All other steps: the evaluator applies GO/NO-GO holistically, considering whether the trainee can perform the task to standard independently

AUTHORITATIVE REFERENCES

Publication	Title	Relevance
AR 350-1	Army Training and Leader Development	Master regulation for Army training policy; governs evaluation standards and training records
TR 350-70	Army Learning Policy and Systems	TRADOC master regulation governing training evaluation methodology and assessment design
ADP 7-0	Training	Army training doctrine; establishes principles for task-condition-standard evaluation
FM 7-0	Training	Unit training management procedures; provides guidance on GO/NO-GO evaluation and remediation

NOTE

TR 350-70 is published by TRADOC at adminpubs.tradoc.army.mil, not DA APD.

PART I — SL 1: MAVEN USER T&EOS

T&EO SL1-01: LOG IN AND NAVIGATE TO DESIGNATED APPLICATION

Task: Authenticate to MSS Training Environment and navigate to a designated Workshop application.

Conditions: Given a government workstation with CAC reader and network access to the MSS Training Environment; trainee has an active account in the Training Environment. The evaluator specifies the name of the target Workshop application.

Standards: The trainee will authenticate using CAC/PIV PIN and navigate to the designated Workshop application — without instructor assistance — within 5 minutes of the task being assigned.

#	Performance Measure	GO	NO-GO
1	Opens browser and navigates to the MSS Training Environment URL (not production MSS)	Navigates directly to correct URL	Opens production MSS; requires correction
2	Selects correct certificate (PIV Authentication)	Selects correct cert	Selects wrong cert; authentication fails
3	Enters PIV PIN when prompted	PIN entered correctly	Fails PIN entry; requires reset
4	Confirms Training Environment landing page is displayed	Training Environment confirmed	Navigates to production environment
5	Navigates to designated Workshop application using Projects or Compass	Application open within 5 minutes	Requires instructor guidance; exceeds 5 minutes
[CRITICAL] 6	Does not attempt to access the production MSS environment during the task	Training Environment confirmed	Navigates to production

T&EO SL1-02: FILTER TABLE TO IDENTIFY MISSING SUBMISSIONS

Task: Apply a date filter to a SITREP submission table and identify units with missing submissions.

Conditions: Given an open Workshop application containing a SITREP submission table with at least 20 records spanning multiple weeks; the evaluator specifies the filter condition ("filter to last 7 days") and the unit list (15 units expected).

Standards: The trainee will apply the correct filter and correctly identify all units with missing submissions — without assistance — within 5 minutes.

#	Performance Measure	GO	NO-GO
1	Locates the filter control for the date column	Identifies correct filter	Cannot locate filter without assistance
2	Applies "last 7 days" filter condition	Filter applied; row count reduces	Incorrect filter applied; incorrect row count
3	Identifies the number of submissions in the filtered view	States correct count	States incorrect count
4	Correctly identifies missing unit(s) by comparing submission list to provided unit roster	All missing units named	Misses a missing unit or incorrectly identifies a present unit as missing

T&EO SL1-03: EXECUTE AN AUTHORIZED ACTION

Task: Execute a status update Action on a specified record in a Workshop application.

Conditions: Given a Workshop application with a SITREP status table and an "Update SITREP Status" Action; the evaluator specifies the target record (by name or ID) and the new status value to set.

Standards: The trainee will locate the target record, execute the Action with the correct parameters, and verify the status updated — without assistance — within 3 minutes.

#	Performance Measure	GO	NO-GO
1	Locates the target record in the table (by filtering or scrolling)	Record located	Cannot locate record; requires assistance
2	Activates the Action button (selects record first if required)	Action button activated	Action button remains grayed; trainee does not diagnose
3	Completes the Action parameter form with the specified new status	Correct status value entered	Incorrect status entered
4	Confirms the Action execution when prompted	Executes Action	Dismisses confirmation without executing

#	Performance Measure	GO	NO-GO
5	Verifies the record status updated in the table	Confirms updated status visible	Does not verify; states "it worked" without confirmation
[CRITICAL] 6	Does not execute the Action on the wrong record	Target record status updated	Wrong record status updated

T&EO SL1-04: EXPORT FILTERED TABLE TO CSV

Task: Export a filtered Workshop table to CSV with correct classification labeling.

Conditions: Given a filtered Workshop table (filter previously applied); the evaluator specifies the export destination (a designated training output folder).

Standards: The trainee will export the filtered table to CSV, confirm row count matches the filtered view, and label the file with the correct classification marking.

#	Performance Measure	GO	NO-GO
1	Locates the export function for the table widget	Export function found	Cannot locate; requires assistance
2	Selects CSV as export format	CSV selected	Incorrect format selected
3	Exports to the designated training output folder (not personal downloads, cloud storage)	Exported to authorized location	Exported to unauthorized location
4	Confirms exported row count matches filtered table row count	Row count verified	Row count not verified; or count does not match
[CRITICAL] 5	Labels the exported file with the classification marking (UNCLASSIFIED in training)	File labeled	File not labeled; or incorrect label

T&EO SL1-05: BUILD A BASIC CONTOUR CHART

Task: Build a bar chart in Contour from a provided dataset.

Conditions: Given access to Contour and a specified dataset (equipment readiness by unit) in the Training Environment; the evaluator specifies the chart type (bar chart), X axis field (unit), and Y axis field (equipment_count); a filter condition is also specified (c_rating IN ['C3','C4']).

Standards: The trainee will open the dataset in Contour, build the specified bar chart, apply the specified filter, and describe what the chart shows — without assistance — within 10 minutes.

#	Performance Measure	GO	NO-GO
1	Opens the specified dataset in Contour	Dataset open in Contour	Cannot open; navigates to wrong dataset
2	Selects correct X axis field (unit)	Correct field on X axis	Incorrect field; chart does not show unit distribution
3	Selects correct Y axis field (equipment_count or equivalent)	Correct field on Y axis	Incorrect field
4	Applies specified filter (c_rating IN ['C3','C4'])	Filter applied; data narrows	Filter not applied or incorrect
5	Saves the Contour analysis with a descriptive name	Analysis saved with descriptive name	Not saved; or named with default/non-descriptive label

T&EO SL1-06: IDENTIFY CLASSIFICATION MARKING AND STATE AUTHORIZED EXPORT PROCEDURE

Task: Locate the classification marking of a specified dataset and state the authorized export procedure.

Conditions: The evaluator identifies a dataset by name; the trainee must locate the classification marking in the dataset properties and state the authorized export destination and handling requirements for that classification level.

Standards: The trainee will locate the classification marking in the dataset Properties panel and correctly state the authorized distribution and export procedure — without reference to notes.

#	Performance Measure	GO	NO-GO
1	Opens the dataset Properties panel	Properties panel open	Cannot locate Properties panel
2	Reads the classification marking from the Properties panel	Reads marking aloud	States a marking without reading it from the Properties panel
[CRITICAL] 3	States the correct authorized distribution for the marking	Correct distribution stated	States incorrect distribution (e.g., "CUI data can go to personal email")

#	Performance Measure	GO	NO-GO
[CRITICAL] 4	States the authorized export destination (government systems for CUI; no personal cloud storage, no personal email)	Correct destination stated	States an unauthorized destination
5	States the correct file labeling requirement for the export	Correct labeling stated	No labeling requirement stated

T&EO SL1-07: EXPLORE AN OBJECT TYPE IN QUIVER

Task: Navigate to a specified Object Type in Quiver, apply a filter, and export the filtered view.

Conditions: Given access to Quiver in the MSS Training Environment; the evaluator specifies the Object Type name, a filter condition (e.g., status = 'RED'), and the export format.

Standards: The trainee will navigate to the specified Object Type in Quiver, apply the filter, confirm the filtered result set, and export the view — without assistance — within 5 minutes.

#	Performance Measure	GO	NO-GO
1	Opens Quiver and navigates to the specified Object Type	Correct Object Type open in Quiver	Cannot locate Object Type; opens wrong type
2	Identifies at least 3 properties displayed for the Object Type	Properties identified	Cannot describe Object properties
3	Applies the specified filter condition	Filter applied; result set narrows	Filter not applied or incorrect
4	States the count of objects matching the filter	Correct count stated	Incorrect count
5	Exports the filtered view to the designated format and location	Export completed	Export not completed; requires assistance

T&EO SL1-08: SUBMIT A QUERY TO AN AIP INTERFACE

Task: Submit a natural language query to a designated AIP interface and assess the output.

Conditions: Given access to a designated AIP Logic workflow or Agent interface in the Training Environment; the evaluator specifies the query to submit and the expected output domain.

Standards: The trainee will navigate to the AIP interface, submit the specified query, and state whether the output is reasonable or suspect — without assistance — within 5 minutes.

#	Performance Measure	GO	NO-GO
1	Navigates to the designated AIP interface	Interface open	Cannot locate; requires assistance
2	Submits the specified query in the input field	Query submitted	Query not submitted; or wrong interface used
3	Waits for and identifies the output	Output received and read	Navigates away before output appears
[CRITICAL] 4	States that AIP outputs require human verification and should not be treated as authoritative without review	States verification requirement	Treats AIP output as authoritative without caveat
5	Identifies at least one limitation of AI-generated output (e.g., may hallucinate, may lack current data)	Limitation identified	Cannot state any limitation

T&EO SL1-09: TROUBLESHOOT COMMON ACCESS ISSUES

Task: Diagnose and state the resolution for pre-staged MSS access failures.

Conditions: The evaluator presents 2 access failure scenarios from the following set: wrong classification marking, no project access, dataset moved or renamed, certificate selection error, expired account. The trainee uses SL 1 troubleshooting procedures.

Standards: The trainee will correctly diagnose the root cause and state the correct resolution action for at least 2 of 2 scenarios — without reference to notes — within 5 minutes.

#	Performance Measure	GO	NO-GO
1	Correctly diagnoses the first access failure scenario	Root cause correctly identified	Incorrect diagnosis
2	States the correct resolution action for the first scenario	Correct resolution stated	Incorrect or no resolution stated
3	Correctly diagnoses the second access failure scenario	Root cause correctly identified	Incorrect diagnosis

#	Performance Measure	GO	NO-GO
4	States the correct resolution action for the second scenario	Correct resolution stated	Incorrect or no resolution stated

T&EO SL1-10: REQUEST ACCESS TO A MISSING RESOURCE

Task: Submit a correct access request for a resource the trainee cannot currently access.

Conditions: The evaluator directs the trainee to access a dataset or application for which the trainee does not have permissions. The trainee must identify the access gap and submit a request to the unit MSS administrator.

Standards: The trainee will identify the access issue, determine the correct request recipient, and submit a correctly formatted access request — without assistance — within 5 minutes.

#	Performance Measure	GO	NO-GO
1	Identifies the access error (permission denied, not found, or equivalent)	Error correctly identified	Does not recognize access issue; assumes system is broken
2	States the correct recipient for the access request (unit MSS administrator)	Correct recipient identified	States incorrect recipient (e.g., C2DAO, help desk)
3	Includes required information in the request: resource name, project, and requested access level	All required information included	Missing resource name or requested access level

PART II — SL 2: BUILDER T&EOS

T&EO SL2-01: CREATE A FOUNDRY PROJECT TO STANDARD

Conditions: Given the C2DAO Naming and Governance Standards; a specified project name, classification, and folder structure.

Standards: Create a correctly named, marked, and structured project — independently.

#	Performance Measure	GO	NO-GO
1	Project name follows C2DAO naming convention (unit_description_env format)	Correct name	Spaces, special chars, or format violation
[CRITICAL] 2	Classification marking set	Marking set	No marking
3	All four required folders created (Datasets, Pipelines, Ontology, Applications)	All four present	Any folder missing

T&EO SL2-02: INGEST FILES AND VERIFY DATA QUALITY

Conditions: Two provided files (CSV and XLSX); trainee's Foundry project.

Standards: Ingest both files; verify row counts; identify at least one data quality observation per file.

#	Performance Measure	GO	NO-GO
1	Both files ingested to correct project folder	Both files in Datasets folder	File in wrong location or not ingested
2	Row count verified for each file (matches source)	Both row counts confirmed	Row count not checked
3	At least one data quality observation noted per file	Observation documented	No observation documented

T&EO SL2-03: BUILD A CLEAN-AND-TRANSFORM PIPELINE

Conditions: Two ingested datasets (equipment and unit lookup); trainee's project.

Standards: Build a pipeline that validates, cleans, type-casts, and joins the two datasets; pipeline runs to completion without error; output row count matches expected.

#	Performance Measure	GO	NO-GO
1	Pipeline has Filter step removing null or invalid rows	Filter step present and configured	No filter; nulls present in output
2	Pipeline has Rename step with C2DAO-compliant column names	All output columns follow convention	Any column with non-compliant name
3	Pipeline has CAST steps correcting type errors identified in profiling	Types correct in output	Type mismatch in output
4	Pipeline has a Join step on <code>unit_id</code> producing a joined output	Join step present; correct key	No join; or wrong key; or 0-row output
[CRITICAL] 5	Date column(s) have a computed DATEDIFF column where applicable	Date computation present and correct	Date computation absent or incorrect
[CRITICAL] 6	Pipeline runs to completion without error	No errors in pipeline log	Pipeline errors present (even if output appears)
7	Output row count matches expected (no unexplained fan-out)	Row count matches	Row count unexplainably inflated (fan-out)

T&EO SL2-04: CREATE AN OBJECT TYPE

Conditions: Pipeline output dataset with at least 5 columns of different types.

Standards: Create an Object Type with all specified properties correctly typed, a Primary Key, and a display name expression.

#	Performance Measure	GO	NO-GO
1	Object Type created with all required properties	All properties present	Any required property missing
[CRITICAL] 2	All property types correct (STRING, INTEGER, DATE, etc.)	All types correct	Any type incorrect

#	Performance Measure	GO	NO-GO
[CRITICAL] 3	Primary Key property designated	Primary Key set	No Primary Key
4	Display name expression configured	Display name expression set	No display name expression
5	Object Type naming follows C2DAO convention	Compliant name	Non-compliant name

T&EO SL2-05: CREATE A LINK TYPE

Conditions: Two existing Object Types (Equipment and Unit).

Standards: Create a Link Type connecting the two Object Types with correct cardinality and directionality.

#	Performance Measure	GO	NO-GO
1	Link Type created between correct Object Types	Equipment links to Unit	Wrong Object Types
2	Cardinality set correctly (MANY_TO_ONE)	MANY_TO_ONE	Incorrect cardinality
3	Directionality correct (Equipment → Unit)	Correct direction	Reversed

T&EO SL2-06: CONFIGURE ONTOLOGY WRITE STEP

Conditions: Existing Object Type; pipeline with output dataset.

Standards: Configure an Ontology write step with correct property mapping; run pipeline; verify Object count in Quiver matches source row count.

#	Performance Measure	GO	NO-GO
1	Ontology write step added to pipeline	Write step present	No write step
2	All required properties mapped (pipeline column → Object property)	All properties mapped	Any required property unmapped
[CRITICAL] 3	Primary Key column mapped	PK mapped	PK not mapped (all objects overwrite)

#	Performance Measure	GO	NO-GO
[CRITICAL] 4	Object count in Quiver matches source row count	Count matches	Count does not match (silent data loss)

T&EO SL2-07: CONFIGURE AN ACTION

Conditions: Existing Object Type (Equipment).

Standards: Create an Action with a parameter, write rule, and Editor-only access restriction; test from Ontology Manager; confirm property updates.

#	Performance Measure	GO	NO-GO
1	Action created with named parameter	Parameter exists with name and type	No parameter
2	Write rule maps parameter to correct Object property	Write rule correct	Write rule missing or incorrect
[CRITICAL] 3	Access restricted to Editor role (Viewer cannot execute)	Editor-only restriction set	No restriction; Viewer can execute
4	Action tested from Ontology Manager; property confirms updated	Property updated after test	Property did not update

T&EO SL2-08: BUILD A WORKSHOP APPLICATION

Conditions: Object Type with at least 5 properties; existing Action.

Standards: Create a Workshop application with a table, filter widget, metric widget, and bar chart — each correctly bound to the Object Type.

#	Performance Measure	GO	NO-GO
1	Application named per C2DAO convention	Compliant name	Non-compliant name
2	Table widget bound to Object Type; displays required columns	Table shows live Ontology data	Table not bound; static or empty
3	Filter widget present and connected to table	Filter narrows table correctly	Filter present but not connected; or absent

#	Performance Measure	GO	NO-GO
4	Metric widget shows C1 count (or specified count)	Metric displays correct value	Metric absent or incorrect
5	Bar chart widget present with correct X and Y fields	Chart displays correct distribution	Chart absent; or wrong fields

T&EO SL2-09: CONNECT ACTION BUTTON; VERIFY EXECUTION

Conditions: Workshop application from T&EO SL2-08; Action from T&EO SL2-07.

Standards: Add an Action button; execute from a selected row; verify table refreshes with updated value.

#	Performance Measure	GO	NO-GO
1	Action button added to application	Button present	No button
2	Action executes when row is selected and button clicked	Action fires; confirmation appears	Action does not fire
[CRITICAL] 3	Table refreshes to show updated property value after execution	Table refreshes with correct updated value	Table does not refresh; or wrong value

T&EO SL2-10: CONFIGURE ACCESS CONTROL

Conditions: Workshop application; test Viewer-role account provided by evaluator.

Standards: Grant Viewer access to test account; confirm Viewer can see application and data but cannot execute Editor-only Action.

#	Performance Measure	GO	NO-GO
1	Test Viewer account granted access	Access granted	Access not granted
2	Viewer account can open and view the application	Application visible to Viewer	Application not visible
[CRITICAL] 3	Viewer account cannot execute the Editor-only Action	Action unavailable to Viewer	Viewer can execute Action (access misconfigured)

T&EO SL2-11: CREATE BRANCH AND SUBMIT PROMOTION REQUEST

Conditions: Workshop application to modify (change application header text as the branch change).

Standards: Create a branch; make the change on the branch; verify branch-only; submit promotion request with complete description; respond to evaluator (as data steward) feedback.

#	Performance Measure	GO	NO-GO
[CRITICAL] 1	Branch created BEFORE making the change	Branch exists before change	Change made on main; branch created after
2	Change visible on branch; main is unchanged	Change is branch-only	Change appears on main
3	Promotion request submitted with complete description (what changed / why / downstream impact)	Description complete	Description empty or generic ("Updated application")
4	Evaluator feedback responded to within the evaluation period	Feedback addressed; revision submitted	Feedback ignored

PART III — SL 3: ADVANCED BUILDER T&EOS

T&EO SL3-01: DESIGN ONTOLOGY SCHEMA

Conditions: A provided mission scenario description; 30 minutes design time before tool access; 6-item design rubric.

Standards: Produce a documented Ontology schema (Object Types with properties and types, Link Types with cardinality, Actions with access restrictions) scoring $\geq 75\%$ on the rubric with no zero-score item.

#	Rubric Item	GO	NO-GO
1	Domain entities correctly identified (no missing required entities, no phantom entities)	All required entities present	Required entity missing; or phantom entity with no data basis
2	Primary Keys appropriate (unique per entity, non-null, stable identifier)	PK choices justified	PK choice clearly wrong (name field, unstable ID)
3	Property types documented and correct	All types specified and correct	Missing types; or significant type errors
4	Link Type cardinality correct and justified	Cardinality correct; rationale stated	Cardinality wrong; or no rationale
5	Actions target correct properties with appropriate access control	All Actions have access restriction specified	Any Action with no access restriction
6	Naming follows C2DAO convention	All names compliant	>2 naming violations

T&EO SL3-02: BUILD MULTI-SOURCE PIPELINE WITH APPEND MODE

Conditions: Two or three provided datasets; pipeline requirements specified in scenario.

Standards: Build a pipeline joining multiple sources; configure Append mode; run twice; verify two distinct snapshot records with different timestamps.

#	Performance Measure	GO	NO-GO
1	Join step on correct key; correct join type	Join correct	Wrong key; wrong join type; fan-out unresolved
[CRITICAL] 2	Fan-out detected and corrected if present	Fan-out absent; or detected and documented	Fan-out present in output without detection
3	Append mode configured before first run	Append mode set; confirmed before run	Overwrite mode used; or Append set after first run
4	Snapshot timestamp column present in output	Timestamp column present	No timestamp
[CRITICAL] 5	Two distinct snapshot records present after two runs	Two records with different timestamps	Only one record (Overwrite mode was used)

T&EO SL3-03: CONFIGURE APPEND MODE SNAPSHOT PIPELINE — INCLUDED IN SL3-02 ABOVE

T&EO SL3-04: BUILD MULTI-PAGE WORKSHOP APPLICATION

Conditions: Existing Object Types from scenario; scenario specifying two pages with variable passing.

Standards: Build a multi-page application where Page 1 object selection drives a filtered view on Page 2; conditional formatting on at least one table.

#	Performance Measure	GO	NO-GO
1	Page 1 (portfolio) shows all units with correct status	Portfolio page correct	Portfolio page empty or incorrect
2	Object selection on Page 1 navigates to Page 2	Navigation works	Navigation absent; or goes to wrong page
[CRITICAL] 3	Page 2 content filtered by Page 1 selection	Page 2 shows correct unit's records	Page 2 shows all records regardless of selection
4	Conditional formatting present (status-based row coloring)	Formatting applied	No conditional formatting

T&EO SL3-05: BUILD CONTOUR WORKBOOK WITH CALCULATED DEVIATION COLUMN

Standards: Build a Contour workbook showing readiness by battalion with a calculated deviation-from-standard column.

#	Performance Measure	GO	NO-GO
1	Correct dataset loaded	Correct dataset	Wrong dataset
2	Deviation column computed (actual - standard or equivalent)	Deviation column present and correct	Column absent or formula incorrect
3	Workbook saved with descriptive name	Saved with compliant name	Not saved

T&EO SL3-06: EXECUTE FULL C2DAO PROMOTION WORKFLOW

Standards: Branch → change → complete description → submit → respond to steward feedback.

#	Performance Measure	GO	NO-GO
[CRITI CAL] 1	Promotion description complete (what changed/why/downstream impact)	Complete description	Empty or generic description
[CRITI CAL] 2	Evaluator (data steward) feedback responded to	Feedback addressed; resubmission made	Feedback not addressed within evaluation
3	Change is on branch, not on main, at time of submission	Branch-only change	Change on main

T&EO SL3-07: BUILD A MULTI-OBJECT QUIVER DASHBOARD

Task: Build a Quiver dashboard with linked views across multiple Object Types.

Conditions: Given at least two populated Object Types with a Link Type between them; scenario specifying the required linked views and filter propagation behavior.

Standards: The trainee will build a Quiver dashboard with linked views where filters propagate across Object Types — without assistance — within 15 minutes.

#	Performance Measure	GO	NO-GO
1	Dashboard contains views for at least two Object Types	Both Object Types displayed	Any required Object Type missing
2	Views are linked via the defined Link Type	Link traversal functional	Views not linked; data not connected
[CRITICAL] 3	Filters propagate correctly across linked views (filtering one view narrows the other)	Cross-filter propagation confirmed	Filters do not propagate; views are independent
4	Drill-down from one Object Type to related Objects functions correctly	Drill-down navigates to correct related Objects	Drill-down absent or navigates to wrong Objects

T&EO SL3-08: CONFIGURE AN AIP LOGIC WORKFLOW

Task: Configure an AIP Logic workflow with triggers, inputs, and outputs connected to the Ontology.

Conditions: Given an existing Object Type and a scenario specifying the workflow purpose (e.g., extract structured fields from text input); human review queue available in the Training Environment.

Standards: The trainee will configure the AIP Logic workflow with correct trigger, input binding, and output binding; route output to a human review queue — without assistance — within 20 minutes.

#	Performance Measure	GO	NO-GO
1	Workflow trigger configured correctly (manual or event-based per scenario)	Trigger fires as specified	Trigger absent or misconfigured
2	Input binding connects to correct Ontology Object or dataset field	Input binding correct	Input not bound or bound to wrong source
3	Output produces structured result (JSON or typed fields)	Structured output produced	Unstructured prose output only
[CRITICAL] 4	Output routes to human review queue (not directly to production Objects)	Output enters review queue as Draft	Output writes directly to production without review
5	Workflow runs without error on provided test input	Successful test execution	Workflow errors on test run

T&EO SL3-09: INTERPRET A DATA LINEAGE GRAPH

Task: Read a data lineage graph for a provided dataset and identify upstream sources, transforms, and downstream consumers.

Conditions: The evaluator presents a dataset's lineage graph in Foundry; the trainee must interpret the graph and answer questions about the data flow.

Standards: The trainee will correctly identify all upstream source datasets, the pipeline transforms applied, and the downstream consumers — without assistance — within 5 minutes.

#	Performance Measure	GO	NO-GO
1	Opens the lineage graph for the specified dataset	Lineage graph displayed	Cannot locate lineage view
2	Correctly identifies all upstream source datasets (by name)	All sources named	Any source missed or incorrect
3	Correctly describes the pipeline transforms applied (filter, join, etc.)	Transform types correctly described	Transforms misidentified or omitted
4	Correctly identifies downstream consumers (applications, dashboards, or other pipelines)	All consumers named	Any consumer missed
5	States how a change to an upstream source would propagate through the lineage	Propagation correctly described	Cannot describe downstream impact

PART IIIA — SL 4 WFF FUNCTIONAL TRACK T&EOS (SL 4A THROUGH SL 4F)

WFF tracks share a common T&EO task structure. Scenario content (Object Type names, dataset fields, mission context) is adapted per WFF. Evaluators select the scenario package for the applicable WFF track.

Prerequisite reminder: SL 4A–F require SL 1, SL 2, and SL 3 (all required). Evaluation: 6 tasks, all must pass (Go/No-Go); 3-hour evaluation window.

WFF Track Scenario Packages

Track	Course	Primary Domain Scenario	Key Object Types
SL 4A	Intelligence WFF	PMESII pattern analysis; ISR track management; threat object tagging	ThreatReport, ISRCollection, PMESIIObservation
SL 4B	Fires WFF	Target tracking pipeline; fire mission status; effects dashboard; CSR coordination	Target, FireMission, EffectsAssessment
SL 4C	Movement & Maneuver WFF	Maneuver unit readiness; route status; obstacle tracking; S3 planning dashboard	ManeuverUnit, Route, Obstacle, MovementOrder
SL 4D	Sustainment WFF	Class I–IX supply status; LOGSTAT pipeline; requisition tracking; S4 COP products	SupplyRequest, EquipmentReadiness, LOGSTATSubmission
SL 4E	Protection WFF	Force protection object types; AT data products; CBRN incident tracking; AMD status	ProtectionEvent, CBRNReport, FPStatusUpdate
SL 4F	Mission Command WFF	COP object types; CCIR threshold monitoring; SITREP submission; commander dashboard	SITREPSubmission, CCIRThreshold, COPObject

NOTE

All six WFF track evaluations use T&EO tasks 40WFF-01 through 40WFF-06. Evaluator selects the scenario package column matching the trainee's track. Critical performance measures for WFF tracks apply uniformly across all six scenario packages.

T&EO 40WFF-01: BUILD A WFF PIPELINE FROM PROVIDED EXERCISE DATA

Task: Ingest a provided WFF-specific dataset; build a Pipeline Builder pipeline that cleans, transforms, and outputs a typed, validated dataset ready for Ontology write.

Conditions: Given a provided synthetic WFF dataset (scenario-specific to the track); trainee's Foundry project in the MSS Training Environment.

Standards: Pipeline runs to completion without error; output schema is correctly typed; row count matches expected; output is written to the correct project folder.

#	Performance Measure	GO	NO-GO
1	Pipeline ingests the provided dataset without error	Ingestion completes; row count verified	Ingestion fails or row count not verified
2	Filter step removes null or invalid rows	Filter step present; nulls absent in output	No filter; nulls present in output
3	Column types correct (STRING, DATE, INTEGER as applicable)	All types correct	Any type mismatch in output
4	Computed column present (e.g., status flag, RAG value, DATEDIFF)	Computed column correct	Column absent or formula incorrect
[CRITICAL] 5	Pipeline runs to completion without error	No errors in pipeline log	Pipeline errors present
6	Output dataset in correct folder with C2DAO-compliant name	Output in Datasets folder; compliant name	Output misplaced or non-compliant name

T&EO 40WFF-02: CREATE WFF OBJECT TYPES AND POPULATE VIA PIPELINE

Task: Create the WFF-specific Object Types documented in the scenario and populate them via the pipeline Ontology write step.

Conditions: Pipeline output dataset from 40WFF-01; scenario specifying required Object Types and properties.

Standards: All required Object Types created with correctly typed properties; Primary Key designated; Object count in Quiver matches source row count.

#	Performance Measure	GO	NO-GO
1	All required Object Types created	All Object Types present	Any required Object Type missing
[CRITICAL] 2	All property types correct	All types correct	Any type incorrect
[CRITICAL] 3	Primary Key designated for each Object Type	PK set	No PK (all objects overwrite)
4	Ontology write step configured; pipeline runs	Write step present; pipeline runs	Write step absent or pipeline fails
[CRITICAL] 5	Object count in Quiver matches source row count	Count matches	Count does not match (silent data loss)
6	Object Type naming follows C2DAO convention	Compliant names	Non-compliant names

T&EO 40WFF-03: CONFIGURE A WFF WORKSHOP APPLICATION

Task: Build a Workshop application displaying WFF data with appropriate filters and status indicators.

Conditions: Populated Object Types from 40WFF-02; scenario specifying required widgets and filter fields.

Standards: Application displays live Ontology data; all required filter widgets functional; status indicators present; classification marking displayed.

#	Performance Measure	GO	NO-GO
1	Application named per C2DAO convention	Compliant name	Non-compliant name
2	Table widget bound to correct Object Type; displays required columns	Table shows live Ontology data	Table not bound; static or empty
3	Filter widget(s) present and functional (narrows table correctly)	Filter narrows correctly	Filter absent or not connected
4	Status indicator present (conditional formatting or metric widget)	Status indicator functional	Status indicator absent
[CRITICAL] 5	Classification marking present on the application	Marking displayed	Marking absent

T&EO 40WFF-04: CONFIGURE A WFF ACTION

Task: Create an Action to support a WFF workflow (e.g., status update, submission trigger).

Conditions: Existing WFF Object Type; scenario specifying the Action type and access restriction.

Standards: Action created with correct parameter, write rule, and access restriction; test execution confirms property updates.

#	Performance Measure	GO	NO-GO
1	Action created with named parameter	Parameter exists with name and type	No parameter
2	Write rule maps parameter to correct Object property	Write rule correct	Write rule missing or incorrect
[CRITICAL] 3	Access restricted per scenario spec (Editor-only or specified role)	Access restriction set	No restriction; unauthorized role can execute
4	Action tested; property confirms updated	Property updated after test	Property did not update

T&EO 40WFF-05: BUILD A MULTI-PAGE WFF DASHBOARD

Task: Build a multi-page Workshop application where a Page 1 selection drives a filtered detail view on Page 2.

Conditions: Object Types populated from 40WFF-02; scenario specifying Page 1 (summary) and Page 2 (unit/element detail) requirements.

Standards: Page 1 shows all records with correct status; selecting a record on Page 1 navigates to Page 2 and filters Page 2 data to the selected record's context.

#	Performance Measure	GO	NO-GO
1	Page 1 (summary/portfolio view) displays all records with correct status	Summary page correct	Summary page empty or incorrect
2	Selecting a record on Page 1 navigates to Page 2	Navigation works	Navigation absent or goes to wrong page

#	Performance Measure	GO	NO-GO
[CRITICAL] 3	Page 2 content is filtered by Page 1 selection	Page 2 shows correct record's data	Page 2 shows all records regardless of selection
4	Conditional formatting present on at least one table (status-based)	Formatting applied	No conditional formatting

T&EO 40WFF-06: APPLY C2DAO GOVERNANCE (NAMING, MARKING, BRANCH, PROMOTION)

Task: Demonstrate compliance with C2DAO data governance requirements for a WFF data product.

Conditions: Workshop application from 40WFF-03/05; evaluator will review naming, markings, and require a branch/promote workflow.

Standards: Product meets C2DAO naming convention; classification marking present; branch created before change; promotion request submitted with complete description.

#	Performance Measure	GO	NO-GO
1	Dataset, pipeline, and application names follow C2DAO convention	All names compliant	Any non-compliant name
2	Classification marking present on dataset and application	Markings present	Any marking absent
[CRITICAL] 3	Branch created BEFORE making the specified change	Branch exists before change	Change made on main; branch created after
4	Change is on branch only; main is unchanged	Change is branch-only	Change appears on main
[CRITICAL] 5	Promotion request submitted with complete description (what/why/downstream impact)	Description complete	Description empty or generic

PART IV — SL 4 SPECIALIST TRACK T&EOS

SL 4G (ORSA) T&EOS

T&EO 40G-01: Configure Code Workspace and Verify Foundry Connectivity

Task: Configure a Python/R Code Workspace with required packages and verify Foundry dataset read/write connectivity.

Conditions: Given a Foundry project with Code Workspace access and a test dataset; trainee's workspace in the MSS Training Environment.

Standards: Workspace configured with required packages; test dataset read successfully; test write transaction committed and verified.

#	Performance Measure	GO	NO-GO
1	Required packages installed (statsmodels, scipy, pandas, numpy, matplotlib)	All packages importable	Any required package fails to import
2	Test dataset read via Spark or pandas; schema and row count confirmed	Dataset read; schema matches	Dataset not readable; connection error
[CRITICAL] 3	Write transaction test: output dataset written and committed	Write transaction committed; output dataset confirmed	Write transaction fails or uncommitted
4	Random seed set in workspace configuration	Seed set	No seed configured

T&EO 40G-02: Build and Validate a Regression Model

Task: Build a linear regression model for a provided readiness dataset with validation statistics and documented assumptions.

Conditions: Given a readiness dataset with at least 6 features; trainee's Code Workspace.

Standards: Model built, validated with residual analysis, and output written to Foundry with documented feature selection rationale and validation statistics.

#	Performance Measure	GO	NO-GO
1	Feature selection rationale documented (not just "best fit")	Rationale documented	No rationale for feature selection
2	Model trained with reproducible random seed	Seed set; split reproducible	No seed; results not reproducible
3	Validation statistics computed (R^2 , RMSE, MAE at minimum)	All three statistics present	Any validation statistic missing
[CRITICAL] 4	Residual analysis performed (residual plot or QQ plot)	Residual analysis present	No residual analysis
5	Model output written to Foundry curated dataset	Output in Foundry	Output not written to Foundry
6	Assumptions documented (linearity, independence, normality of residuals)	Assumptions listed	No assumption documentation

T&EO 40G-03: Build a Time Series Forecast with Confidence Bounds

Task: Build an ARIMA/SARIMA time series forecast with documented model selection rationale and 90% confidence intervals.

Conditions: Given a time series dataset (12+ months of readiness data); trainee's Code Workspace.

Standards: Forecast produced with documented stationarity test, model identification rationale, and 90% confidence intervals on all forecast values.

#	Performance Measure	GO	NO-GO
1	Stationarity test performed (ADF or equivalent)	Test performed; result documented	No stationarity test
2	Model order selection documented with ACF/PACF rationale	Selection rationale documented	No rationale; arbitrary order selection
[CRITICAL] 3	90% confidence intervals present on forecast output	Confidence intervals displayed	Point estimate without bounds
4	Out-of-sample forecast extends at least 6 periods forward	Forecast extends ≥ 6 periods	Fewer than 6 periods

#	Performance Measure	GO	NO-GO
5	Forecast plot includes historical data and confidence bounds	Plot with historical and bounds	Plot missing historical context or bounds

T&EO 40G-04: Run a Monte Carlo Simulation

Task: Run a Monte Carlo simulation for a COA comparison scenario with distribution selection rationale and reproducibility.

Conditions: Given a COA comparison scenario with defined operational thresholds; trainee's Code Workspace.

Standards: Simulation runs $\geq 1,000$ trials with seed set; distribution selection justified; probability at operational threshold computed and reported.

#	Performance Measure	GO	NO-GO
[CRITICAL] 1	Minimum 1,000 trials executed	$\geq 1,000$ trials	Fewer than 1,000 trials
[CRITICAL] 2	Random seed set for reproducibility	Seed set; evaluator re-run matches	No seed; simulation not reproducible
3	Distribution selection justified from data or operational knowledge	Justification documented	No justification for distribution choice
4	Probability at operational threshold computed (e.g., $P(\text{readiness} < 80\%)$ at D+30)	Threshold probability computed	No threshold probability
5	Output distribution plotted with threshold marked	Distribution with threshold visible	No plot; or threshold not marked

T&EO 40G-05: Formulate and Solve a Linear Programming Problem

Task: Formulate and solve a resource allocation LP for a provided constraint scenario.

Conditions: Given a resource allocation scenario with defined constraints and objective; trainee's Code Workspace with scipy.

Standards: LP correctly formulated with documented constraints; solution computed; sensitivity analysis on binding constraints.

#	Performance Measure	GO	NO-GO
1	Objective function correctly formulated	Objective matches scenario	Objective incorrect
2	All constraints correctly formulated and documented	All constraints present	Any constraint missing or incorrect
3	Solution computed using scipy.optimize.linprog or equivalent	Solution produced	Solver fails or not attempted
4	Binding constraints identified	Binding constraints stated	Binding constraints not identified
5	Sensitivity analysis on at least one binding constraint	Sensitivity analysis present	No sensitivity analysis

T&EO 40G-06: Produce a Commander Brief with Uncertainty Bounds

Task: Produce a commander decision support brief from the practical exercise results.

Conditions: Results from T&EOs 40G-02 through 40G-05; evaluator plays the role of the commander.

Standards: Brief presents all estimates with confidence ranges; no point estimate without bounds; language appropriate for non-technical audience.

#	Performance Measure	GO	NO-GO
[CRITICAL] 1	Every estimate presented with confidence range or interval	All estimates bounded	Any point estimate without bounds
2	Language is appropriate for a non-technical commander audience	Clear, non-technical language	Methods-paper language; jargon-heavy
3	Assumptions stated for each analytical product	Assumptions communicated	No assumption communication
[CRITICAL] 4	No unqualified predictions (e.g., "will" without a probability qualifier)	All predictions qualified	Unqualified prediction present
5	Recommendation is supported by the analytical evidence presented	Recommendation traceable to evidence	Recommendation exceeds analytical foundation

SL 4H (AI ENGINEER) T&EOS

T&EO 40H-01: Author an AIP Logic Workflow

Task: Author an AIP Logic workflow with prompt engineering, conditional chain logic, and structured JSON output.

Conditions: Given a dataset with unstructured text records; scenario specifying required output fields; trainee's AIP Logic configuration access.

Standards: Workflow produces structured JSON output matching the specified schema; conditional chain handles multiple extraction paths; test run succeeds on provided data.

#	Performance Measure	GO	NO-GO
1	Prompt template includes explicit military terminology context	Military terminology defined in prompt	No terminology context; relies on LLM defaults
2	Workflow produces structured JSON output (not prose)	JSON output validated against schema	Unstructured prose output
3	Conditional chain present (different logic paths based on intermediate output)	Conditional logic functional	Linear workflow only; no conditional branching
4	Error handling configured (routes malformed output to review queue)	Error handling present	Silent failure on malformed output
[CRITICAL] 5	Workflow runs without error on provided test input	Test run succeeds	Workflow errors on test run

T&EO 40H-02: Configure an AIP Agent Studio Agent

Task: Configure and test an Agent Studio agent with at least two tools and defined memory scope.

Conditions: Given existing Object Types and a defined scope of authorized queries; evaluator will test with 5 queries including out-of-scope queries.

Standards: Agent responds correctly to in-scope queries; refuses out-of-scope queries; tool calls are logged.

#	Performance Measure	GO	NO-GO
1	Agent configured with at least two tools	Two tools registered	Fewer than two tools
2	Agent responds correctly to 5 evaluator queries	Correct responses to in-scope queries	Incorrect response to in-scope query
[CRITICAL] 3	Agent refuses out-of-scope queries	Out-of-scope queries refused	Agent responds to out-of-scope query
4	Tool calls are logged and visible	Tool call logs present	No logging of tool calls
5	Memory scope defined and enforced	Memory scope configured	No memory scope; unbounded context

T&EO 40H-03: Build an LLM Integration Pipeline with RAG

Task: Build a pipeline with ontology grounding and retrieval-augmented generation.

Conditions: Given a document corpus and Object Types in the Training Environment; scenario specifying retrieval requirements.

Standards: Pipeline retrieves correct ontology context for provided queries; output is grounded in retrieved content; evaluator validates grounding.

#	Performance Measure	GO	NO-GO
1	Retrieval mechanism configured (semantic search or keyword)	Retrieval functional	No retrieval; prompt-only generation
2	Retrieved context is from the correct Ontology Objects	Context grounded in correct Objects	Context from wrong Objects or fabricated
3	Output references retrieved content (grounding visible)	Grounding evident in output	Output not traceable to retrieved content
[CRITICAL] 4	Output routed to human review queue before production write	Review queue integration present	Output writes directly to production
5	Pipeline runs without error on provided test queries	Test queries succeed	Pipeline errors on test queries

T&EO 40H-04: Implement Human-in-the-Loop Checkpoints

Task: Implement human review checkpoints for all write-capable Actions in an AIP workflow.

Conditions: Existing AIP Logic workflow with at least one Ontology write Action; evaluator will attempt to bypass the review gate.

Standards: No Action writes to production Objects without a visible human review/confirm step; evaluator bypass attempt is blocked.

#	Performance Measure	GO	NO-GO
[CRITIC AL] 1	No AIP workflow write occurs without human checkpoint	All writes pass through checkpoint	Any write bypasses checkpoint
2	Review queue displays output for human inspection before write	Output visible in review queue	Review queue absent or empty
3	Reviewer can approve or reject each output	Approve/reject functional	No reject option available
[CRITIC AL] 4	Evaluator bypass attempt is blocked by workflow design	Bypass attempt fails	Bypass succeeds

T&EO 40H-05: Write Python Transforms for AIP Context

Task: Write Python transforms that extract and format Ontology data for AIP Logic context input.

Conditions: Given an Object Type with at least 5 properties; scenario specifying the context format required by the AIP Logic workflow.

Standards: Transform output matches expected schema; runs without error; military terminology is explicitly defined in context.

#	Performance Measure	GO	NO-GO
1	Transform extracts correct Object properties	All required properties extracted	Any required property missing
2	Output formatted to match AIP Logic input schema	Schema match confirmed	Schema mismatch
3	Military terminology definitions included in context output	Terminology defined	No terminology context; abbreviations unexplained
4	Transform runs without error	Successful execution	Runtime error

T&EO 40H-06: Complete the AIP Authorization Checklist

Task: Complete the AIP Authorization Checklist for a proposed workflow and identify prohibited use cases.

Conditions: Given a proposed AIP workflow design document; TM-40H Appendix A (Authorization Checklist) and Appendix B (Prohibited Use Cases).

Standards: Checklist complete and honest; at least 5 prohibited use cases identified by category.

#	Performance Measure	GO	NO-GO
1	All checklist items completed	All items addressed	Any checklist item blank
[CRITICAL] 2	Checklist responses are honest and accurate (evaluator verifies against workflow design)	Responses match actual workflow	Checklist misrepresents workflow capability or safety
3	At least 5 prohibited use cases identified from Appendix B	≥5 prohibited uses identified	Fewer than 5 identified
4	Human-in-the-loop requirement documented for all Ontology write operations	HITL documented for all writes	Any write operation without HITL documentation

SL 4M (ML ENGINEER) T&EOS

T&EO 40M-01: Configure Code Workspace with GPU and Verify Connectivity

Task: Configure a GPU-enabled Code Workspace with required packages and verify Foundry dataset read/write connectivity.

Conditions: Given a Foundry project with GPU Code Workspace access and a test dataset.

Standards: Workspace configured; GPU allocation confirmed; test dataset read and write transaction verified.

#	Performance Measure	GO	NO-GO
1	Required packages installed (scikit-learn, PyTorch or TensorFlow, pandas, numpy)	All packages importable	Any required package fails

#	Performance Measure	GO	NO-GO
2	GPU allocation confirmed (torch.cuda.is_available() or equivalent)	GPU available	GPU not allocated or not detected
[CRITICAL] 3	Write transaction test: output dataset written and committed to Foundry	Write transaction committed	Write transaction fails
4	Random seed set for reproducibility	Seed set	No seed configured

T&EO 40M-02: Build a Feature Engineering Pipeline

Task: Build a feature engineering pipeline from a provided Foundry dataset meeting documented feature standards.

Conditions: Given a raw dataset with null values, type inconsistencies, and potential leakage features; trainee's Code Workspace.

Standards: Feature matrix output with nulls handled, encoding applied, scaling applied, and no feature leakage.

#	Performance Measure	GO	NO-GO
1	Null handling strategy applied and documented (impute, drop, or sentinel)	Nulls handled; strategy documented	Nulls present in output; or no documentation
2	Categorical encoding applied (one-hot or ordinal as appropriate)	Encoding applied	Raw categorical values in feature matrix
3	Numeric scaling applied (standard or min-max)	Scaling applied	Unscaled numeric features
[CRITICAL] 4	Leakage audit performed: no feature derived from the label	Leakage audit documented; no leakage	Leakage detected; or audit not performed
5	Feature matrix written to Foundry curated dataset	Output in Foundry	Output not written
6	Each feature decision documented in writing	Feature documentation present	No documentation

T&EO 40M-03: Train and Evaluate a Supervised Model

Task: Train and evaluate a supervised model meeting defined accuracy, precision/recall, and calibration thresholds.

Conditions: Feature matrix from 40M-02; scenario specifying acceptance thresholds; trainee's GPU Code Workspace.

Standards: Model trained with cross-validation; evaluation metrics meet or are compared against acceptance thresholds; calibration check performed.

#	Performance Measure	GO	NO-GO
1	Train/test split with reproducible random seed	Split reproducible	No seed; not reproducible
2	Cross-validation performed ($k \geq 5$)	Cross-validation results reported	No cross-validation
3	Evaluation metrics computed (accuracy, precision, recall, ROC-AUC)	All metrics reported	Any metric missing
[CRITICAL] 4	Calibration check performed and documented	Calibration check present	Calibration skipped
5	Model comparison: at least two models evaluated with documented selection rationale	Two models compared; winner justified	Single model with no comparison

T&EO 40M-04: Deploy a Model to a Serving Endpoint

Task: Deploy a trained model to a Foundry model serving endpoint and verify live inference.

Conditions: Trained model from 40M-03; model registry access.

Standards: Model deployed; inference endpoint returns predictions for test records; latency within specification.

#	Performance Measure	GO	NO-GO
1	Model registered in Foundry model registry with version	Model registered and versioned	Model not registered
2	Serving endpoint deployed and responding	Endpoint responds to inference request	Endpoint not deployed or not responding
[CRITICAL] 3	Inference returns correct predictions for 10 test records	Predictions returned for all 10 records	Predictions fail or return errors

#	Performance Measure	GO	NO-GO
4	Latency within specification (scenario-defined threshold)	Latency within spec	Latency exceeds threshold

T&EO 40M-05: Implement a Drift Monitoring Pipeline

Task: Implement a monitoring pipeline with data drift detection and alert configuration.

Conditions: Deployed model from 40M-04; evaluator will seed a drift event into the monitoring dataset.

Standards: Pipeline detects evaluator-seeded drift event; alert routes correctly.

#	Performance Measure	GO	NO-GO
1	Drift detection method implemented (PSI, KS test, or equivalent)	Drift metric computed	No drift detection
2	Baseline distribution established from deployment-time data	Baseline documented	No baseline established
3	Alert threshold defined and documented	Threshold set with rationale	No threshold defined
[CRITICAL] 4	Evaluator-seeded drift event detected by monitoring pipeline	Drift detected and flagged	Drift not detected
5	Alert routes to correct notification channel	Alert routed correctly	Alert not routed

T&EO 40M-06: Complete a Model Governance Document

Task: Complete a model governance document (model card) meeting USAREUR-AF documentation standards.

Conditions: Completed model from 40M-03 through 40M-05; SL 4M governance checklist.

Standards: Model card addresses all required sections; limitations are realistic and specific.

#	Performance Measure	GO	NO-GO
[CRITICAL] 1	Model card includes: assumptions, training data description, limitations, intended use restrictions	All four required sections present	Any required section missing
2	Limitations are specific and realistic (not generic boilerplate)	Specific limitations documented	Generic limitations (e.g., "may not be perfect")

#	Performance Measure	GO	NO-GO
3	Responsible AI declaration included	Declaration present	Declaration absent
4	Intended use restrictions clearly state when the model should NOT be used	Out-of-scope uses documented	No out-of-scope documentation

SL 4J (PROGRAM MANAGER) T&EOS

T&EO 40J-01: Design a Program Data Architecture

Task: Design a program data architecture (4 Object Types) for a provided scenario.

Conditions: Given a program management scenario; 15 minutes design time on paper before building.

Standards: Design document covers Program, Milestone, Resource, and Risk Object Types with correct Link Types and properties.

#	Performance Measure	GO	NO-GO
1	All four Object Types designed (Program, Milestone, Resource, Risk)	All four present	Any Object Type missing
2	Link Types specified with correct cardinality (Program → Milestone: ONE_TO_MANY, etc.)	Cardinality correct	Cardinality incorrect
3	Properties documented with types for each Object Type	Properties and types specified	Properties missing types
4	Design completed on paper before opening Ontology Manager	Paper design precedes build	Built without paper design

T&EO 40J-02: Build a Milestone Tracking Pipeline

Task: Build a pipeline from a provided IMS spreadsheet with DATEDIFF, milestone variance, and RAG status.

Conditions: Given an IMS Excel export with planned/actual completion dates; trainee's Foundry project.

Standards: Pipeline runs without error; DATEDIFF variance computed correctly; RAG status computed; data-as-of timestamp present.

#	Performance Measure	GO	NO-GO
1	IMS Excel ingested; date columns correctly CAST before arithmetic	CAST applied; types correct	CAST not applied; DATEDIFF fails on text
2	DATEDIFF variance computed (planned_completion vs. actual_completion)	Variance column correct	Variance absent or incorrect
3	RAG status computed (RED >30 days late, AMBER >0, GREEN ≤0)	RAG logic correct	RAG absent or logic incorrect
[CRITICAL] 4	Data-as-of timestamp column present (CURRENT_DATE)	Timestamp column present	No data-as-of timestamp
5	Pipeline runs without error	No errors	Pipeline errors present

T&EO 40J-03: Build a Milestone Dashboard with Data-As-Of Timestamp

Task: Build a Workshop milestone dashboard with RAG conditional formatting and data-as-of timestamp widget.

Conditions: Pipeline output from 40J-02; populated Milestone Object Type.

Standards: Dashboard displays milestone status with RAG formatting; data-as-of timestamp widget present and visible.

#	Performance Measure	GO	NO-GO
1	Table widget displays milestones with status	Table functional	Table empty or not bound
2	RAG conditional formatting applied (RED, AMBER, GREEN row coloring)	Formatting correct	No conditional formatting
[CRITICAL] 3	Data-as-of timestamp widget present and displaying current date	Timestamp visible	No data-as-of timestamp on dashboard
4	Filter widget allows filtering by program or status	Filter functional	No filter

T&EO 40J-04: Build a Budget Execution Visualization

Task: Build a Quiver visualization showing obligation rate vs. quarterly target.

Conditions: GFEBs obligation data loaded; quarterly target specified by evaluator.

Standards: Chart displays obligation rate with reference line at quarterly target; at-risk programs identifiable.

#	Performance Measure	GO	NO-GO
1	Obligation rate chart displays correctly	Chart renders with correct data	Chart absent or incorrect data
2	Reference line at quarterly target (e.g., Q2 = 50%)	Reference line present at correct value	No reference line
3	At-risk programs identifiable from the visualization	At-risk programs visually distinguishable	Cannot identify at-risk programs

T&EO 40J-05: Configure a Snapshot Pipeline in Append Mode

Task: Configure an Append mode pipeline for historical trend analysis; run twice; verify cumulative records.

Conditions: Pipeline from 40J-02 or separate obligation pipeline; Append mode not yet configured.

Standards: Append mode configured before first run; two distinct snapshot records present after two runs.

#	Performance Measure	GO	NO-GO
1	Append mode configured before first run	Append mode set before run	Overwrite mode used; or Append set after first run
2	Snapshot timestamp column present	Timestamp column present	No snapshot timestamp
[CRITICAL] 3	Two distinct snapshot records present after two runs	Two records with different timestamps	Only one record (Overwrite mode was used)

T&EO 40J-06: Produce an IPR Product Meeting PM Dashboard Standards

Task: Produce an IPR product from MSS meeting the PM Dashboard Standards Checklist.

Conditions: Dashboard from 40J-03; Contour portfolio view; PM Dashboard Standards Checklist.

Standards: Product meets all checklist items; Contour portfolio sorts RED to top; product is exportable.

#	Performance Measure	GO	NO-GO
1	Contour portfolio health matrix present	Portfolio view created	No portfolio view
2	Portfolio sorted by overall_status ascending (RED at top)	RED items at top	Not sorted; or sorted incorrectly
3	All PM Dashboard Standards Checklist items met	All items pass	Any checklist item fails
4	Product exportable as PDF for commander IPR	PDF export successful	Cannot export

SL 4K (KNOWLEDGE MANAGER) T&EOS

T&EO 40K-01: Design a Knowledge Ontology

Task: Design a knowledge ontology (5+ Object Types) for a provided unit KM scenario.

Conditions: Given a unit KM scenario; knowledge architecture checklist provided.

Standards: Design covers all required Object Types with correct Link Types; evaluated against knowledge architecture checklist.

#	Performance Measure	GO	NO-GO
1	All required Object Types present (Document, Lesson, AAR, SOP, ExpertiseProfile)	All five present	Any Object Type missing
2	Link Types specified between Object Types (Lesson → AAR, Lesson → Unit, SOP → Unit)	Links correct	Links missing or incorrect
3	Properties documented with types	All properties specified	Properties missing types
4	Design evaluated against knowledge architecture checklist	Checklist passes	Checklist fails

T&EO 40K-02: Configure an AAR Submission Form

Task: Configure a Workshop AAR submission form that writes to the AAR Object Type.

Conditions: Existing AAR Object Type from 40K-01.

Standards: Form writes correctly to AAR Object Type; required fields enforced; submission confirmation displayed.

#	Performance Measure	GO	NO-GO
1	Form includes all required fields (unit, date, event type, location, description, lesson, classification)	All required fields present	Any required field missing
[CRITICAL] 2	Required-field validation fires on empty submission	Validation prevents empty submission	Empty submission accepted
3	Submission writes to AAR Object Type	Data confirmed in Object Type	Write fails or writes to wrong Object
4	Submission confirmation displayed to user	Confirmation visible	No confirmation

T&EO 40K-03: Configure a Lessons-Learned Pipeline

Task: Configure a lessons-learned intake pipeline with tagging and distribution logic.

Conditions: Provided test data for pipeline; tagging taxonomy specified by evaluator.

Standards: Pipeline applies tagging taxonomy; distribution routing logic functional; output reviewed for accuracy.

#	Performance Measure	GO	NO-GO
1	Tagging taxonomy applied to ingested lessons	Tags applied per taxonomy	No tagging
2	Deduplication logic present	Duplicate records removed or flagged	Duplicates pass through
3	Distribution routing logic functional (e.g., classification-based routing)	Routing logic correct	No routing; or routing incorrect
4	Pipeline runs without error on provided test data	No errors	Pipeline errors present

T&EO 40K-04: Configure an AIP Summarization Workflow with Review Gate

Task: Configure an AIP Logic summarization workflow for document intake with a human review gate.

Conditions: Given 5 provided documents; AIP Logic configuration access; human review queue available.

Standards: Workflow processes provided documents; output routed to review queue with Draft status; no auto-publish.

#	Performance Measure	GO	NO-GO
1	Workflow processes provided documents without error	All 5 documents processed	Any document fails processing
2	Output summaries are structured (not raw prose)	Structured output	Unstructured output
[CRITICAL] 3	All AIP-generated lessons begin as Draft status	All outputs have Draft status	Any output published without review
4	Human review queue displays outputs for KM review	Review queue populated	Review queue empty

T&EO 40K-05: Build a Knowledge Browser Application

Task: Build a knowledge browser application with search, filter, and drill-down.

Conditions: Populated Knowledge Object Types from prior tasks; evaluator will submit 5 test queries.

Standards: Application returns correct results for all 5 evaluator test queries.

#	Performance Measure	GO	NO-GO
1	Search functionality present (keyword or semantic)	Search returns results	No search capability
2	Filter by tag, unit, and date functional	All three filters work	Any filter non-functional
3	Drill-down from search result to full lesson/AAR text	Drill-down functional	Drill-down absent
[CRITICAL] 4	Application returns correct results for all 5 evaluator test queries	5 of 5 queries return correct results	Any query returns incorrect results

T&EO 40K-06: Produce a PCS Knowledge Transfer Package

Task: Build and demonstrate a PCS knowledge transfer package for a specific role.

Conditions: Given a role description and TM-40K Ch 9 transfer package requirements.

Standards: Package contains all required documentation; names specific Foundry artifacts; not generic boilerplate.

#	Performance Measure	GO	NO-GO
1	Key person dependency analysis completed	Dependencies identified	No dependency analysis
[CRITICAL] 2	Package names specific Foundry projects, Object Types, pipelines, and contacts	Specific artifacts named	Generic boilerplate ("see Foundry for details")
3	Data quality status documented for each artifact	Quality status present	No quality documentation
4	Package reviewed and approved by instructor	Instructor approval	Not reviewed

SL 4L (SOFTWARE ENGINEER) T&EOS

T&EO 40L-01: Authenticate and Execute a Paginated OSDK Query

Task: Authenticate to Foundry Ontology via OSDK and execute a paginated, filtered object query.

Conditions: Given an Object Type with >50 objects; evaluator specifies filter condition; trainee's OSDK development environment.

Standards: Query returns correct records; pagination handles all pages; no hardcoded credentials.

#	Performance Measure	GO	NO-GO
1	OSDK client initialized with correct authentication	Client authenticated	Authentication fails
2	Filter applied as specified by evaluator	Correct records returned	Wrong records; filter not applied
[CRITICAL] 3	Pagination iterates all pages (not just page 1)	All pages retrieved	Only page 1 retrieved; results truncated
[CRITICAL] 4	No hardcoded credentials in application code	No credentials in code	Any hardcoded credential present

T&EO 40L-02: Execute an Action via OSDK with Validation

Task: Execute an Action via OSDK with full validation logic and structured error handling.

Conditions: Given an Action that writes to an Object Type; evaluator provides valid and invalid input scenarios.

Standards: Valid Action executes successfully; invalid input triggers correct structured error response.

#	Performance Measure	GO	NO-GO
1	Valid Action executes and returns success	Action succeeds on valid input	Action fails on valid input
2	Invalid input triggers validation error (not unhandled exception)	Structured error returned	Unhandled exception; or no validation
3	Error response includes specific field and message	Error identifies failing field	Generic error only
4	Async response pattern used (task ID polling for completion)	Async pattern implemented	Synchronous block; no polling

T&EO 40L-03: Build a TypeScript Function on Objects

Task: Build a TypeScript Function implementing a computed property.

Conditions: Given an Object Type with at least 5 properties; scenario specifying the computed property logic.

Standards: Computed property returns correct values for 10 test objects; edge cases handled.

#	Performance Measure	GO	NO-GO
1	Function compiles without TypeScript errors	No compilation errors	TypeScript errors present
2	Computed property returns correct values for 10 test objects	All 10 correct	Any incorrect value
3	Edge cases handled (null properties, boundary values)	Edge cases produce correct results	Edge case produces error or incorrect value
4	Bulk query pattern used (not per-object API calls)	Bulk pattern	N+1 query pattern present

T&EO 40L-04: Write and Test a TypeScript Action Validator

Task: Write a TypeScript Action validator with at least 3 distinct validation conditions and test with 8 test cases.

Conditions: Given an Action that writes to an Object Type; scenario specifying validation rules; 8 provided test cases (4 valid, 4 invalid).

Standards: Validator passes/blocks correctly in all 8 test cases; each test case paired with expected error message.

#	Performance Measure	GO	NO-GO
1	At least 3 distinct validation conditions implemented	≥3 conditions	Fewer than 3 conditions
2	Each condition produces a specific, descriptive error message	Specific error messages	Generic or missing error messages
[CRITICAL] 3	All 8 test cases pass (4 valid accepted, 4 invalid blocked with correct errors)	8 of 8 pass	Any test case fails
4	Cross-field validation present (e.g., if status=DEPLOYED, location must be non-null)	Cross-field logic present	No cross-field validation

T&EO 40L-05: Build a Slate Application with Live Ontology Data

Task: Build a Slate application integrated with the Foundry API displaying live ontology data.

Conditions: Given Object Types and Actions from prior tasks; scenario specifying UI requirements.

Standards: Application renders correctly; data refreshes on state change; error states display useful messages.

#	Performance Measure	GO	NO-GO
1	Application renders and displays live Ontology data	Data displayed	Application does not render; or static data
2	Data refreshes on state change (Action completion triggers refresh)	Refresh on state change	Manual refresh required
3	Error state displays useful error message on Action failure	Useful error message displayed	No error display; or generic "error occurred"
[CRITICAL] 4	No hardcoded credentials in application code	No credentials in code	Any hardcoded credential present

T&EO 40L-06: Complete a C2DAO Code Review and Deployment Workflow

Task: Complete a code review and deployment workflow for a provided OSDK application.

Conditions: Given a completed application from prior tasks; C2DAO deployment checklist.

Standards: PR created; review comments addressed; deployment checklist completed end-to-end.

#	Performance Measure	GO	NO-GO
1	Pull request created with descriptive title and summary	PR created	No PR
2	Review comments addressed (evaluator provides at least 2 comments)	Comments addressed	Comments ignored
3	Deployment checklist completed end-to-end	All checklist items addressed	Any checklist item incomplete
[CRITICAL] 4	No hardcoded credentials or tokens in committed code	No credentials	Credentials present in committed code

SL 4N (UI/UX DESIGNER) T&EOS

T&EO 40N-01: Produce a User Research Plan

Task: Produce a user research plan including research questions, target population, interview guide, and contextual inquiry protocol.

Conditions: Given a design scenario specifying the user population and operational context; SCD methodology reference.

Standards: Research plan is complete and actionable; interview guide uses SCD semi-structured questions; contextual inquiry protocol addresses operational environment constraints.

#	Performance Measure	GO	NO-GO
1	Research questions clearly defined and tied to design decisions	Questions defined	No research questions
2	Target user population identified with role, rank range, and operational context	Population specified	Generic or undefined population

#	Performance Measure	GO	NO-GO
3	Interview guide uses SCD semi-structured questions (not leading or yes/no)	SCD questions present	Leading or yes/no questions
4	Contextual inquiry protocol addresses operational environment (classification, lighting, noise, screen size)	Environment constraints addressed	No contextual inquiry protocol

T&EO 40N-02: Design an Information Architecture

Task: Design an information architecture for an MSS dashboard passing the "glance, scan, commit" test.

Conditions: Given a WFF scenario specifying the user's decision workflow; design tools available.

Standards: Design demonstrates decision-first hierarchy; passes 2-second (glance), 10-second (scan), and 30-second (commit) review levels.

#	Performance Measure	GO	NO-GO
1	Decision-first hierarchy documented (decision → supporting info → priority order → layout)	Hierarchy documented	No hierarchy; widget-palette-first design
[CRITICAL] 2	Design passes glance test: overall status identifiable within 2 seconds	Status identifiable at glance	Status not identifiable without reading
3	Design passes scan test: areas needing attention identifiable within 10 seconds	Attention areas identifiable	Cannot identify attention areas within 10 seconds
4	Design passes commit test: drill-down to decision-supporting detail within 30 seconds	Detail accessible within 30 seconds	Detail requires >30 seconds to reach

T&EO 40N-03: Build an Interactive Prototype

Task: Build a clickable interactive prototype of a data entry workflow with all five states designed.

Conditions: Given a data entry scenario; design tools available.

Standards: Prototype is testable; all five states represented (default, loading, empty, error, success); user can walk through primary task flow without designer explanation.

#	Performance Measure	GO	NO-GO
1	Prototype is clickable and navigable (not static mockup)	Prototype navigable	Static mockup only

#	Performance Measure	GO	NO-GO
2	Default state displays correctly	Default state present	No default state
3	Loading, empty, and success states represented	All three states present	Any state missing
[CRITICAL] 4	Error state displays useful feedback (not blank or generic)	Error state with feedback	No error state; or blank/generic error
5	User can complete primary task flow without designer explanation	Task flow completable independently	Requires explanation to navigate

T&EO 40N-04: Produce a Design Handoff Package

Task: Produce a design-to-development handoff package for a SL 4L SWE or SL 3 builder.

Conditions: Completed prototype from 40N-03; handoff template provided.

Standards: Package is implementation-ready; a SWE can implement without asking clarifying questions.

#	Performance Measure	GO	NO-GO
1	Annotated mockups present with widget specifications	Mockups annotated	No annotations
[CRITICAL] 2	Data binding documentation present (widget → Object property mapping)	Data binding documented	No data binding documentation
3	Interaction specification covers all states (default, loading, empty, error, success)	All states specified	Any state unspecified
4	Accessibility requirements documented	Accessibility notes present	No accessibility documentation

T&EO 40N-05: Complete an Accessibility Audit

Task: Complete an accessibility checklist covering contrast, keyboard navigation, text alternatives, and screen reader compatibility.

Conditions: Prototype from 40N-03; MSS accessibility checklist.

Standards: Audit identifies at least 3 accessibility issues; WCAG 2.1 AA criteria applied.

#	Performance Measure	GO	NO-GO
1	Automated accessibility scan completed	Scan results documented	No scan performed
2	Manual keyboard navigation test completed	Keyboard test documented	No keyboard test
[CRITICAL] 3	At least 3 accessibility issues identified with severity and WCAG criterion	≥3 issues identified	Fewer than 3 issues; or no WCAG reference
4	Color-only encoding identified and flagged (redundant indicators required)	Color-only issues flagged	Color-only encoding not identified

T&EO 40N-06: Execute a Usability Test

Task: Execute a usability test with 5+ participants, documenting task completion rates and severity-rated findings.

Conditions: Prototype from 40N-03; 5 paired trainees serving as test participants.

Standards: Test executed with think-aloud protocol; task completion rates documented; findings severity-rated.

#	Performance Measure	GO	NO-GO
1	Think-aloud protocol used during test sessions	Think-aloud captured	No think-aloud; silent observation only
2	Task completion rates documented per task	Rates documented	No completion rates
3	Findings severity-rated (Critical, Major, Minor, Cosmetic)	Severity ratings applied	No severity ratings
[CRITICAL] 4	Design recommendations proposed for Critical and Major findings	Recommendations present for Critical/Major	No recommendations for Critical/Major findings

SL 40 (PLATFORM ENGINEER) T&EOS

T&EO 400-01: Deploy a Workload to Kubernetes

Task: Deploy a workload to a Kubernetes cluster with declarative manifests, resource management, and health checks.

Conditions: Given a container image and deployment requirements; training Kubernetes cluster.

Standards: Workload deployed; resource requests and limits configured; liveness and readiness probes functional.

#	Performance Measure	GO	NO-GO
1	Workload deployed using declarative YAML manifests (kubectl apply)	Deployment successful	Imperative deployment; or deployment fails
2	Resource requests and limits configured	Both requests and limits set	No resource configuration
[CRITICAL] 3	Liveness and readiness probes configured and passing	Both probes configured and healthy	No health probes; or probes failing
4	Labels applied per standard (app, env, team at minimum)	All required labels present	Missing required labels

T&EO 400-02: Configure a GitOps Workflow with Drift Detection

Task: Configure a GitOps controller, deploy by commit, and demonstrate drift detection and revert.

Conditions: Given a GitOps controller (ArgoCD or equivalent) and training cluster; evaluator will manually create drift.

Standards: Application deployed via Git commit; evaluator-created drift detected and reverted automatically.

#	Performance Measure	GO	NO-GO
1	GitOps controller configured and syncing from Git repository	Controller synced	Controller not configured or not syncing
2	Application deployed by committing configuration to Git	Deployment via commit	Manual kubectl apply required
[CRITICAL] 3	Evaluator-created drift detected and reverted by controller	Drift reverted automatically	Drift persists; controller does not revert
4	Drift alerts configured	Alert fires on drift	No drift alerting

T&EO 400-03: Harden a Container Image

Task: Harden a container image starting from an Iron Bank base with multi-stage build, non-root execution, and capability dropping.

Conditions: Given an application requiring containerization; Iron Bank base images available.

Standards: Container passes vulnerability scan; runs as non-root; capabilities dropped.

#	Performance Measure	GO	NO-GO
1	Iron Bank base image used (not Docker Hub)	Iron Bank base	Docker Hub or unauthorized base
2	Multi-stage build: build tools not in production image	Multi-stage build confirmed	Build tools present in production image
[CRITICAL] 3	Container runs as non-root user	Non-root execution confirmed	Container runs as root
4	Linux capabilities dropped (ALL dropped; required added back)	Capabilities dropped	No capability management
5	Vulnerability scan passes (no unpatched CRITICAL/HIGH)	Scan passes	CRITICAL/HIGH vulnerability with available fix

T&EO 400-04: Build a CI/CD Pipeline with Security Gates

Task: Build a CI/CD pipeline with defined stages, security scanning gates, and artifact management.

Conditions: Given an application repository; CI/CD tooling available.

Standards: Pipeline includes security gates; a gate blocks deployment when vulnerability is detected.

#	Performance Measure	GO	NO-GO
1	Pipeline stages defined (build, test, scan, deploy)	All stages present	Any stage missing
2	Secrets detection gate present	Secrets scan configured	No secrets detection
[CRITICAL] 3	Security gate blocks deployment when vulnerability detected (demonstrated)	Gate blocks on detected vulnerability	Gate does not block; security theater
4	Artifacts stored in artifact repository with version tags	Artifacts versioned	No artifact management

T&EO 400-05: Implement a Deployment Strategy with Rollback

Task: Implement rolling update and blue/green deployment strategies; execute a rollback from each.

Conditions: Deployed workload from 400-01; training cluster.

Standards: Both strategies demonstrated; rollback executed from each; rollback restores previous state.

#	Performance Measure	GO	NO-GO
1	Rolling update deployed with zero downtime	Rolling update succeeds	Downtime during rolling update
2	Rollback from rolling update restores previous version	Rollback successful	Rollback fails or does not restore
3	Blue/green deployment executed with traffic switch	Traffic switched to new version	Blue/green not implemented
[CRITICAL] 4	Rollback from blue/green restores previous version	Rollback successful	Rollback fails

T&EO 400-06: Deploy an Application Across an Air Gap

Task: Package and deploy an application to a simulated air-gapped cluster using bundled artifacts only.

Conditions: Simulated air-gapped training namespace (no external egress); bundling tools available.

Standards: Application deployed using bundled artifacts only; health checks pass; no external network access required.

#	Performance Measure	GO	NO-GO
1	Application bundled with all container images and configuration	Bundle complete	Bundle missing dependencies
2	Bundle imported to internal registry	Import successful	Import fails
[CRITICAL] 3	Application deploys and health checks pass with no external network access	Application healthy	Deployment fails due to missing dependency
4	Deployment procedure documented for repeatable execution	Procedure documented	No documentation

PART V — SL 5 ADVANCED SPECIALIST TRACK T&EOS

SL 5 T&EOs evaluate advanced competencies building on the corresponding SL 4 track. All SL 5 practical exercises include multi-part evaluations with product review components.

Prerequisite reminder: Each SL 5 track requires the corresponding SL 4 track (e.g., SL 5G requires SL 4G).

SL 5G (ADVANCED ORSA) T&EOS

T&EO 50G-01: Implement a Bayesian Readiness Model

Task: Implement a Bayesian model with justified prior, posterior estimation, and 90% credible intervals.

Conditions: Given an operational readiness dataset; trainee's Code Workspace with PyMC or equivalent.

Standards: Prior selection justified and documented in assumption register; posterior with 90% credible interval computed.

#	Performance Measure	GO	NO-GO
1	Prior selection justified with documented rationale (not default uniform without justification)	Prior justified	No justification for prior
[CRITICAL] 2	Posterior estimated with 90% credible interval	Credible interval present	Point estimate without bounds
3	Assumption register entry for the prior	Assumption documented	No assumption register entry
4	Hierarchical model applied if multi-echelon data present	Hierarchical approach used	Single-level model on multi-echelon data

T&EO 50G-02: Conduct Network Vulnerability Analysis

Task: Construct a supply chain network graph, compute centrality measures, and identify critical nodes.

Conditions: Given a logistics dataset with node/arc structure; trainee's Code Workspace.

Standards: Network graph constructed; betweenness centrality computed; top 3 critical nodes identified with operational risk translation.

#	Performance Measure	GO	NO-GO
1	Network graph constructed with correct nodes and arcs	Graph matches logistics data	Graph incorrect or incomplete
2	Betweenness centrality computed for all nodes	Centrality computed	No centrality computation
[CRITICAL] 3	Top 3 critical nodes identified with operational risk rating	Critical nodes identified with risk	No operational risk translation
4	Node removal impact analysis performed (flow degradation measured)	Impact analysis present	No impact analysis

T&EO 50G-03: Compute Pareto Frontier for COA Comparison

Task: Formulate a two-objective optimization, compute the Pareto frontier, and name 3 COA points.

Conditions: Given a two-objective scenario (e.g., minimize cost vs. minimize risk); trainee's Code Workspace.

Standards: Pareto frontier computed and plotted; 3 COA points named with operational descriptions.

#	Performance Measure	GO	NO-GO
1	Both objectives quantified with formulas from operational data	Objectives quantified	Objectives vague or unquantified
2	Pareto frontier computed and plotted	Frontier plotted	No frontier computation
[CRITICAL] 3	At least 3 COA points named with operational descriptions	3 COAs named	Fewer than 3 COAs; or no operational naming
4	Recommendation stated with explicit assumption caveat	Recommendation with caveat	Recommendation without caveat

T&EO 50G-04: Produce a GO/SES-Ready Analytical Product

Task: Produce a complete analytical product meeting SL 5G product standards for GO/SES audience.

Conditions: Results from 50G-01 through 50G-03; SL 5G product standards checklist.

Standards: Product includes BLUF, uncertainty quantification, assumption register, limitations, and peer review signature block.

#	Performance Measure	GO	NO-GO
1	BLUF present with result, confidence level, and key assumption	BLUF complete	BLUF missing or incomplete
[CRITICAL] 2	Uncertainty quantified on all estimates (credible intervals, confidence ranges)	All estimates bounded	Any estimate without bounds
[CRITICAL] 3	Assumption register present and complete	Assumption register present	No assumption register
4	Limitations register present with specific invalidation conditions	Limitations present	No limitations; or generic
[CRITICAL] 5	Peer review signature block present and completed	Peer review block present	No peer review block
6	All models reproducible (seeds set, code runs without modification)	Reproducible	Not reproducible

SL 5H (ADVANCED AI ENGINEER) T&EOS

T&EO 50H-01: Design an Enterprise RAG Pipeline Architecture

Task: Design a RAG pipeline architecture with chunking strategy, metadata schema, and retrieval evaluation harness.

Conditions: Given a document corpus and query set; training environment with embedding model access.

Standards: Architecture design justified; retrieval evaluation harness built and producing MRR scores.

#	Performance Measure	GO	NO-GO
1	Chunking strategy selected with documented tradeoff rationale	Strategy justified	No rationale for chunking choice
2	Metadata schema defined (source, date, section, classification)	Metadata schema present	No metadata schema
[CRITICAL] 3	Retrieval evaluation harness built with ground truth query set	Harness produces MRR	No evaluation harness

#	Performance Measure	GO	NO-GO
4	OPSEC implications of embedding model addressed (external API vs. on-premises)	OPSEC addressed	OPSEC not considered

T&EO 50H-02: Design a Multi-Agent System

Task: Implement a multi-agent system with orchestrator, specialized workers, and failure recovery.

Conditions: Given at least three query types requiring different processing; training Agent Studio access.

Standards: Orchestrator routes correctly; failure recovery demonstrated; circular dependency prevention present.

#	Performance Measure	GO	NO-GO
1	Orchestrator routes queries to correct worker agents	Routing correct	Misrouted queries
2	At least two specialized worker agents with defined capabilities	Two workers present	Fewer than two workers
[CRITICAL] 3	Failure recovery path implemented (timeout, fallback, dead-letter queue)	Recovery path functional	No failure recovery
4	Tool output schemas validated before hand-off	Schema validation present	No output validation

T&EO 50H-03: Design an AI Governance Framework

Task: Design a human-in-the-loop governance framework for a production AI system.

Conditions: Given a proposed production AI system design; governance framework template.

Standards: Human review gates placed on all consequential outputs; audit logging designed; rollback procedure documented.

#	Performance Measure	GO	NO-GO
[CRITICAL] 1	Human review gates placed on all consequential outputs (Ontology writes, commander products)	All consequential outputs gated	Any consequential output ungated
2	Audit log schema designed (query, output, reviewer, decision, timestamp)	Audit schema present	No audit logging

#	Performance Measure	GO	NO-GO
3	Rollback procedure documented (≤15 min recovery target)	Rollback documented	No rollback procedure
[CRITICAL] 4	OPSEC classification handling addressed for AI system deployment	OPSEC addressed	Classification handling not addressed

SL 5M (ADVANCED ML ENGINEER) T&EOS

T&EO 50M-01: Build a Drift Monitoring Pipeline

Task: Build a drift monitoring pipeline computing PSI and concept drift metrics with alert thresholds.

Conditions: Given a deployed model and monitoring dataset; evaluator will seed drift.

Standards: Pipeline computes drift scores; evaluator-seeded drift detected; alert routes correctly.

#	Performance Measure	GO	NO-GO
1	PSI computed per feature with documented thresholds	PSI present with thresholds	No PSI computation
2	Baseline established from deployment-time data	Baseline documented	No baseline
[CRITICAL] 3	Evaluator-seeded drift detected and flagged	Drift detected	Drift not detected
4	Alert routes to correct channel	Alert routed	Alert not routed

T&EO 50M-02: Implement Automated Retraining with Shadow Mode

Task: Implement an automated retraining trigger and shadow mode comparison before production promotion.

Conditions: Drift monitoring pipeline from 50M-01; model registry access.

Standards: Retraining trigger linked to drift alert; candidate model runs in shadow mode; human approval gate before promotion.

#	Performance Measure	GO	NO-GO
1	Retraining trigger linked to drift alert	Trigger configured	No automated trigger
2	Candidate model registered with CANDIDATE status	Model registered	No model registration
[CRITICAL] 3	Shadow mode comparison produces output between candidate and production	Shadow comparison present	No shadow mode
4	Human approval gate before production promotion	Approval gate present	Automated promotion without human review

T&EO 50M-03: Conduct Fairness Evaluation and Produce Governance Package

Task: Conduct a fairness evaluation across subgroups and produce a complete model governance package.

Conditions: Deployed model with subgroup-identifiable data; governance checklist.

Standards: Fairness evaluation covers at least 2 subgroups; model card addresses all required sections; deprecation criteria defined.

#	Performance Measure	GO	NO-GO
1	Fairness evaluation computed across at least 2 subgroups	≥2 subgroups evaluated	Fewer than 2 subgroups
2	Performance disparities identified and documented	Disparities documented	No disparity analysis
[CRITICAL] 3	Model card includes: assumptions, training data, limitations, intended use, responsible AI	All sections present	Any section missing
[CRITICAL] 4	Deprecation criteria explicitly defined	Deprecation criteria present	No deprecation criteria
5	Human review gate placed on consequential model outputs	Gate present	No gate on consequential outputs

SL 5J (ADVANCED PROGRAM MANAGER) T&EOS

T&EO 50J-01: Build a Portfolio Health Dashboard

Task: Build a portfolio health dashboard covering all five required dimensions.

Conditions: Given portfolio data (or notional portfolio from scenario); MSS Training Environment.

Standards: Dashboard covers milestone adherence, dependency health, risk register, team velocity, and budget burn rate.

#	Performance Measure	GO	NO-GO
1	All five portfolio dimensions present on dashboard	Five dimensions present	Any dimension missing
2	Milestone status uses GREEN/AMBER/RED with clear definitions	RAG applied	No RAG; or undefined thresholds
3	Dashboard readable by GO/SES audience in 60 seconds	Readable at 60 seconds	Requires explanation
4	Dependency health indicators present	Dependencies visible	No dependency view

T&EO 50J-02: Present a Technical Investment Brief

Task: Present a technical investment brief to a GO/SES audience (evaluator).

Conditions: Given a prepared case study; evaluator plays GO role; evaluator will inject a challenging question and a budget constraint mid-brief.

Standards: Brief uses BLUF; tradeoff table present; trainee adjusts recommendation in response to evaluator-injected constraint.

#	Performance Measure	GO	NO-GO
[CRITICAL] 1	BLUF present at start of brief	BLUF present	No BLUF
2	Tradeoff table with cost, schedule, performance, and risk ratings	Tradeoff table present	No tradeoff comparison

#	Performance Measure	GO	NO-GO
3	Challenging question handled without defensiveness	Question addressed substantively	Defensive or non-responsive
[CRITICAL] 4	Recommendation adjusted in response to evaluator-injected constraint	Adjustment made	No adjustment; original recommendation unchanged

T&EO 50J-03: Respond to an Injected Portfolio Risk

Task: Update risk register, make escalation decision, and brief recommended response to an evaluator-injected portfolio risk.

Conditions: Portfolio dashboard from 50J-01; evaluator injects a portfolio risk during the evaluation.

Standards: Risk register updated; escalation decision made with rationale; recommended response briefed.

#	Performance Measure	GO	NO-GO
1	Risk register updated with the injected risk	Risk documented	Risk not documented
[CRITICAL] 2	Escalation decision made (escalate or manage at portfolio level) with stated rationale	Decision made with rationale	No escalation decision
3	Recommended response briefed to evaluator	Response briefed	No response briefed
4	Cross-program dependency impact assessed	Dependency impact stated	No dependency assessment

SL 5K (ADVANCED KNOWLEDGE MANAGER) T&EOS

T&EO 50K-01: Design a Multi-Domain Taxonomy

Task: Design a multi-domain controlled vocabulary with cross-domain linkages and governance process.

Conditions: Given a theater formation scenario covering 3 functional domains; taxonomy design template.

Standards: Taxonomy covers 3 domains; cross-domain linkages defined; vocabulary governance process documented.

#	Performance Measure	GO	NO-GO
1	Taxonomy covers 3 functional domains	All 3 domains present	Any domain missing
[CRITICAL] 2	Cross-domain linkages defined (same concept mapped across domains)	Linkages present	No cross-domain linkage
3	Vocabulary governance process documented (who adds/modifies/deprecates terms)	Governance documented	No governance process

T&EO 50K-02: Build an AI-Augmented Tagging Pipeline with Review Gate

Task: Build an AIP Logic tagging pipeline with confidence threshold and human review gate.

Conditions: Given a document corpus and controlled vocabulary from 50K-01; AIP Logic access.

Standards: Pipeline auto-tags above confidence threshold; low-confidence tags route to human review; threshold basis documented.

#	Performance Measure	GO	NO-GO
1	Tagging pipeline processes documents without error	Pipeline runs	Pipeline errors
2	Confidence threshold defined with documented basis	Threshold documented	No threshold; or no basis
[CRITICAL] 3	Low-confidence tags route to human review queue (not auto-applied)	Review queue receives low-confidence tags	Low-confidence tags auto-applied
4	High-confidence tags verified against gold-standard sample	Verification present	No verification

T&EO 50K-03: Evaluate Knowledge System Health

Task: Evaluate a provided knowledge system using the health metrics framework.

Conditions: Given a knowledge system with usage logs and content metadata; health metrics framework.

Standards: Evaluation covers zero-recall rate, content age, coverage gaps; prioritized remediation plan produced.

#	Performance Measure	GO	NO-GO
[CRITICAL] 1	Zero-recall rate computed with calculation shown	Zero-recall rate computed	No zero-recall analysis
2	Content age distribution analyzed	Age analysis present	No content age analysis
3	Top 3 coverage gaps identified	Gaps identified	Fewer than 3 gaps
4	Prioritized remediation plan produced	Remediation plan present	No remediation plan

T&EO 50K-04: Design a Unit Continuity Protocol

Task: Design a unit knowledge continuity system for a formation undergoing personnel rotation.

Conditions: Given a turnover scenario; TM-40K Ch 9 continuity procedures.

Standards: Handoff protocol, knowledge decay monitoring, and reactivation procedure designed.

#	Performance Measure	GO	NO-GO
1	Handoff protocol specifies knowledge transfer artifacts for departing personnel	Protocol present	No handoff protocol
2	Knowledge decay monitoring designed (flag artifacts with departed owners after 6 months)	Decay monitoring present	No decay monitoring
3	Reactivation procedure defined for dormant knowledge systems	Reactivation procedure present	No reactivation procedure
4	Protocol tested against the scenario's turnover case study	Applied to case study	Generic protocol not applied to scenario

SL 5L (ADVANCED SOFTWARE ENGINEER) T&EOS

T&EO 50L-01: Design an OSDK-First Object Type with Interface Contract

Task: Model an Object Type optimized for application consumption with interface contract documentation.

Conditions: Given a scenario specifying application query patterns; OSDK development environment.

Standards: Object Type queryable via OSDK; interface contract document covers queries, Actions, error types, and versioning policy.

#	Performance Measure	GO	NO-GO
1	Object Type designed for OSDK consumption (not just data storage)	OSDK query patterns considered	Data-centric design without query consideration
2	Primary key is stable and unique (not mutable business key)	PK stable	Mutable business key as PK
[CRITICAL] 3	Interface contract document covers: queries, Action signatures, error types, versioning	Contract complete	Contract missing any required section
4	Top 5 OSDK queries documented before build	Queries documented	No pre-build query documentation

T&EO 50L-02: Implement Type-Safe TypeScript Function with Tests

Task: Implement a TypeScript Function with type-safe Action validation, discriminated union error types, and unit tests.

Conditions: Given an Object Type and Action requirements; TypeScript development environment.

Standards: Function compiles with no type errors; unit tests cover validation and error paths; all tests pass.

#	Performance Measure	GO	NO-GO
1	TypeScript Function compiles with no type errors	No compilation errors	Type errors present
2	Discriminated union error types used for Action errors	Discriminated unions present	Generic error types
[CRITICAL] 3	Unit tests cover validation and error paths; all pass	All tests pass	Any test fails
4	Input validation at Action boundary before OSDK write	Validation present	No input validation

T&EO 50L-03: Configure Enterprise CI/CD Pipeline with Contract Testing

Task: Configure a CI/CD pipeline with branch protection, contract testing, and promotion gate.

Conditions: Given an application repository; CI/CD tooling available.

Standards: Pipeline includes all required stages; contract test catches a breaking change; human approval gate before production.

#	Performance Measure	GO	NO-GO
1	Pipeline stages: unit test, integration test, contract test, security scan, promotion gate	All stages present	Any stage missing
2	Branch protection: no direct pushes to main; PR required	Branch protection configured	Direct push to main allowed
[CRITICAL] 3	Contract test demonstrates catching a breaking change	Breaking change blocked	Breaking change not detected
4	Human approval gate before production promotion	Approval gate present	Automated promotion without review

T&EO 50L-04: Conduct Security Review and Fix Critical Findings

Task: Conduct a security review of a provided codebase and fix CRITICAL findings.

Conditions: Given an MSS application codebase with seeded vulnerabilities; SL 5L security review checklist.

Standards: Review covers all 5 checklist categories; CRITICAL findings identified and fixed.

#	Performance Measure	GO	NO-GO
1	Security review covers all 5 categories (input validation, credentials, OSDK handling, output encoding, access control)	All categories covered	Any category missed
2	Findings prioritized by severity (CRITICAL/HIGH/MEDIUM/LOW)	Severity ratings applied	No severity ratings
[CRITICAL] 3	CRITICAL findings identified and fixed	CRITICAL findings fixed	CRITICAL finding not fixed
[CRITICAL] 4	No OSDK credentials present in client-side code	No client-side credentials	Credentials in client-side code

SL 5N (ADVANCED UI/UX DESIGNER) T&EOS

T&EO 50N-01: Design a Design System Component

Task: Design a design system component with full documentation including variants, accessibility, and data binding.

Conditions: Given the MSS design system context; component design tools.

Standards: Component documentation is implementation-ready; accessibility notes present; do/don't examples included.

#	Performance Measure	GO	NO-GO
1	Component variants documented with visual examples	Variants present	No variant documentation
[CRITICAL] 2	Accessibility notes present (contrast, keyboard, screen reader)	Accessibility documented	No accessibility documentation
3	Do/don't usage examples included	Examples present	No usage examples
4	Data binding patterns documented	Binding documented	No data binding documentation

T&EO 50N-02: Design a DDIL-Aware Application Pattern

Task: Design a DDIL-aware application pattern covering all four DDIL tiers with freshness indicators.

Conditions: Given an MSS application scenario; four-tier DDIL model.

Standards: All four tiers addressed; freshness indicators present; no blank screen at any tier.

#	Performance Measure	GO	NO-GO
1	All four DDIL tiers addressed (Connected, Degraded, Intermittent, Disconnected)	All tiers present	Any tier missing
2	Data freshness indicators designed (age-based visual encoding)	Freshness indicators present	No freshness indicators
[CRITICAL] 3	No blank screen at any DDIL tier	Content displayed at all tiers	Blank screen at any tier

#	Performance Measure	GO	NO-GO
4	Offline-first interaction pattern: writes queued for sync	Queue pattern designed	No offline write handling

T&EO 50N-03: Produce a Design Governance Proposal

Task: Produce a design governance proposal with review gates, deviation management, and quality metrics.

Conditions: Given the MSS design portfolio context; governance template.

Standards: Proposal includes review gates, deviation management process, and portfolio quality metrics.

#	Performance Measure	GO	NO-GO
1	Design review gates defined (when, who, criteria)	Gates defined	No review gates
[CRITICAL] 2	Deviation management process present (how to deviate from design system)	Deviation process present	No deviation management
3	Quality metrics defined (consistency score, coverage rate, deviation rate)	Metrics defined	No quality metrics

SL 50 (ADVANCED PLATFORM ENGINEER) T&EOS

T&EO 500-01: Design a Fleet Topology and Upgrade Strategy

Task: Design a fleet topology spanning hub and edge clusters with cluster templates and wave-based upgrade strategy.

Conditions: Given fleet requirements (regions, classification levels, workload profiles); fleet management tools.

Standards: Topology designed; cluster templates parameterized; upgrade strategy includes rollback procedures.

#	Performance Measure	GO	NO-GO
1	Fleet topology designed with hub and edge clusters	Topology designed	No fleet topology
2	Cluster templates parameterized for region, classification, and workload	Templates parameterized	Separate templates per cluster
3	Wave-based upgrade strategy documented (canary → production)	Wave strategy documented	No upgrade strategy
[CRITICAL] 4	Rollback procedure documented for failed upgrades	Rollback procedure present	No rollback procedure

T&EO 500-02: Define SLOs with Error Budgets

Task: Define SLOs and SLIs for MSS platform services with error budgets and budget-based decision policies.

Conditions: Given MSS platform service descriptions; SRE framework reference.

Standards: SLIs defined; SLOs set with error budgets; budget-based policy documented.

#	Performance Measure	GO	NO-GO
1	SLIs defined for platform services (availability, latency, success rate)	SLIs defined	No SLIs
2	SLOs set with specific targets and measurement windows	SLOs with targets	Vague or unmeasurable SLOs
[CRITICAL] 3	Error budgets computed from SLO targets	Error budgets computed	No error budgets
4	Budget-based decision policy documented (stop shipping when budget exhausted)	Policy documented	No budget-based policy

T&EO 500-03: Build an Automated Compliance Pipeline

Task: Build a compliance pipeline generating RMF evidence from live system data with a compliance dashboard.

Conditions: Given STIG requirements and system configuration data; compliance tooling.

Standards: Pipeline produces evidence automatically; compliance dashboard displays pass/fail/exception; no manual evidence collection required.

#	Performance Measure	GO	NO-GO
1	Automated vulnerability scan results collected as evidence	Scan evidence present	Manual scan required
2	Configuration baseline comparisons automated	Baseline comparison automated	Manual baseline comparison
[CRITICAL] 3	Compliance dashboard displays pass/fail/exception across STIG findings	Dashboard functional	No compliance dashboard; or manual collection required
4	Exception tracking with expiration dates	Exceptions tracked	No exception management

T&EO 500-04: Configure Federated Observability with SLO-Based Alerting

Task: Configure cross-cluster metric federation and SLO-based alerting.

Conditions: Given two training clusters with Prometheus; alerting infrastructure.

Standards: Metrics federated across clusters; SLO-based alert fires when threshold breached.

#	Performance Measure	GO	NO-GO
1	Cross-cluster metric federation configured	Metrics visible across clusters	Federation not configured
2	Fleet-wide dashboard displays aggregated resource utilization and pod health	Dashboard present	No cross-cluster dashboard
[CRITICAL] 3	SLO-based alert fires when fleet-wide SLI breaches threshold	Alert fires on breach	Alert does not fire
4	Cross-cluster correlation demonstrated (event on one cluster, metric impact visible fleet-wide)	Correlation demonstrated	No cross-cluster correlation

PART VI — T3-I: INSTRUCTOR CERTIFICATION T&EOS

T&EO T3I-01: DELIVER A BLOCK OF INSTRUCTION (MICROTEACHING)

Task: Deliver a 20-minute block of instruction from a SL 1, SL 2, or SL 3 lesson plan.

Conditions: Given a classroom with projector and student workstations; published lesson plan for the selected block; classmates role-playing as trainees at the appropriate course level. The candidate has 20 minutes.

Standards: The candidate will deliver the block demonstrating satisfactory performance on at least 5 of 7 instructor observation criteria, with no unsatisfactory on Technical Accuracy or Evaluation Fidelity.

#	Performance Measure	GO	NO-GO
1	[CRITICAL] Technical accuracy: content is correct; no uncorrected errors	Content correct throughout	Uncorrected technical error
2	Instructional clarity: explanations are clear and appropriately paced	Clear, well-paced	Confusing or inappropriate pace
3	Student engagement: students are actively engaged; instructor identifies stuck students	Students engaged	Students disengaged; stuck students ignored
4	Check on learning: at least 1 check-on-learning question used; questions require more than yes/no	Effective COL question(s) used	No COL questions; or yes/no only
5	Lab management (if applicable): lab runs on schedule; instructor manages errors without solving for students	Lab on schedule; appropriate assistance	Lab off schedule; instructor solves for student
6	[CRITICAL] Evaluation fidelity (if applicable): T&EO procedures followed; no assistance during eval	Procedures followed; no assistance	Procedures not followed; or assistance provided
7	Course materials currency: lesson plan is current; references correct platform version	Current materials	Outdated materials

Overall: GO on 5/7 with no failure on critical items 1 or 6.

T&EO T3I-02: WRITTEN EXAMINATION

Task: Complete a 20-question written exam on instructional methodology, T&EO structure, evaluation procedures, and instructor performance standards.

Conditions: Closed book, closed notes. 60 minutes. Exam administered by Senior or Master Instructor.

Standards: Score \geq 80% (16 of 20 correct).

#	Performance Measure	GO	NO-GO
1	Score \geq 80% (16 of 20)	\geq 16 correct	< 16 correct

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PART VII — T3-F: MSC FORCE MULTIPLIER T&EOS

T&EO T3F-01: DELIVER A SL 1 BLOCK (TEACH-BACK)

Task: Deliver a 15–20 minute block of instruction from the SL 1 lesson plans.

Conditions: Given a classroom with projector and workstations; published SL 1 lesson plan for the selected block; classmates role-playing as SL 1 trainees. The candidate has 15–20 minutes.

Standards: The candidate will deliver the block demonstrating satisfactory technical accuracy and materials use.

#	Performance Measure	GO	NO-GO
1	Technical accuracy: content is correct; platform features demonstrated correctly	Content correct	Technical error in content or demo
2	Materials use: follows published lesson plan; uses check-on-learning questions	Follows plan; uses COL	Deviates from plan; skips COL

Overall: GO on both measures.

T&EO T3F-02: ADMINISTER A SL 1 GO/NO-GO EVALUATION

Task: Administer 1 T&EO from SL1-01 through SL1-10 to a role-player and make the correct Go/No-Go decision.

Conditions: Given a T&EO scoring sheet, a role-player performing a predetermined scenario (Go or No-Go), and the candidate's instructor binder. The evaluator observes the candidate's administration.

Standards: The candidate will correctly score all performance measures, make the correct overall Go/No-Go decision, clearly announce the evaluation mode transition, provide no assistance during the evaluation, and properly document the result.

#	Performance Measure	GO	NO-GO
1	[CRITICAL] Correct overall Go/No-Go decision (matches predetermined scenario)	Correct decision	Incorrect decision

#	Performance Measure	GO	NO-GO
2	All performance measures scored on the T&EO scoring sheet	All measures scored	Missing scores
3	Clear mode transition announcement ("We are now in the evaluation")	Announced clearly	No announcement or unclear
4	[CRITICAL] No assistance provided to role-player during evaluation	No assistance	Any assistance provided
5	Result properly documented on scoring sheet (including deficiency if No-Go)	Documented	Missing documentation

Overall: GO on all critical items + GO on 4/5 total.

T&EO T3F-03: RESOLVE ENVIRONMENT ISSUES

Task: Diagnose and resolve 3 pre-staged MSS environment failures.

Conditions: Given 3 workstations, each with a pre-staged failure from the set of 5 common issues. The candidate works independently. Time limits apply per issue type.

Standards: The candidate will correctly diagnose the root cause and resolve at least 2 of 3 issues within the prescribed time limits.

#	Performance Measure	GO	NO-GO
1	Issue 1: correct diagnosis and resolution within time limit	Resolved	Not resolved
2	Issue 2: correct diagnosis and resolution within time limit	Resolved	Not resolved
3	Issue 3: correct diagnosis and resolution within time limit	Resolved	Not resolved

Overall: GO on ≥ 2 of 3.

APPENDIX A — T&EO SCORING SHEET TEMPLATE

```

=====
MSS TRAINING T&EO SCORING SHEET
=====
Trainee Name: _____
Course: _____
    
```

Task/T&EO: _____
 Evaluation Date: _____
 Evaluator: _____
 =====

PERFORMANCE MEASURES

Step	Description	GO	NO-GO	N/A	Notes
1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	[CRITICAL]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

HARD NO-GO ITEMS VIOLATED (if any):

OVERALL TASK RESULT: GO NO-GO

EVALUATOR NOTES:

EVALUATOR SIGNATURE: _____
 DATE: _____
 =====

T&EO SCORING SHEET — T3 COURSES (BLANK TEMPLATE)

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T&EO SCORING SHEET — T3 COURSES

=====

Trainee Name: _____
 Course: T3-I T3-F
 T&EO Number: _____
 Task Title: _____
 Date: _____
 =====

Step	Description	GO	NO-GO	N/A	Notes
1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	[CRITICAL]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

HARD NO-GO ITEMS VIOLATED (if any):

OVERALL TASK RESULT: [] GO [] NO-GO

EVALUATOR NOTES:

EVALUATOR SIGNATURE: _____

DATE: _____

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USAREUR-AF Operational Data Team T&EO MSS-TEO-001 | Version 2.0 | March 2026

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