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PRACTICAL EXERCISE

# EX-20



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## EX\_20 — No-Code Builder

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*Practical Exercise — SL 2 Proficiency*

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

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## EX\_20 — NO-CODE BUILDER

### PRACTICAL EXERCISE — SL 2 PROFICIENCY

<b>Version</b>	1.0 — March 2026
<b>Prerequisite</b>	SL 2 (and SL 1)
<b>Duration</b>	90–120 min
<b>Environment</b>	MSS training instance with Workshop build permissions — see ENVIRONMENT_SETUP.md

#### NOTE

EX\_20 is a training exercise designed for practice and early skill validation. It covers a subset of SL 2 tasks (pipeline building and Workshop publication). The full capstone practical exercise — which includes Ontology creation, Action configuration, and the complete build-test-promote workflow — is administered on Day 5 of the SL 2 course per the syllabus. EX\_20 does not replace the Day 5 evaluation.

### SCENARIO

Your battalion S6 needs a Workshop dashboard showing daily vehicle availability by company for the past 30 days. A raw dataset is pre-loaded. Ingest it, build a basic pipeline, and produce a usable dashboard — no code required.

Training dataset: synthetic vehicle readiness data, LOGSTAT-format, 90 days, 4 companies.

### TASK LIST

#### Task 1 — Locate and Preview the Dataset (15 min)

- Find the pre-loaded dataset: "EX\_20 Vehicle Availability Training Data"
- Preview the schema — identify date field, unit field, and availability percentage field
- Note any obvious data quality issues (nulls, unexpected values)

- **Go:** Correctly identifies all three fields; notes at least one quality observation
- **No-Go:** Cannot locate dataset or misidentifies schema fields

### Task 2 — Build a Pipeline Transform (30 min)

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- Create a new Pipeline Builder transform
- Filter to the last 30 days using the date field
- Group by company; aggregate average availability per day
- Output to a new dataset named per governance standards (see NAMING\_AND\_GVERNANCE\_STANDARDS.md)
- **Go:** Transform runs successfully; output dataset contains correct columns and row count
- **No-Go:** Transform fails or output schema is incorrect

### Task 3 — Build a Workshop Dashboard (30 min)

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- Create a new Workshop application
- Add a line chart: x-axis = date, y-axis = avg availability, series = company
- Add a filter widget for company selection
- Add a last-updated text widget
- **Go:** Dashboard renders with chart and functional filter; last-updated timestamp visible
- **No-Go:** Chart does not render or filter has no effect

### Task 4 — Publish and Share (15 min)

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- Set the dashboard to read-only for your training cohort group
- Share the link with your evaluator
- Confirm the evaluator can view without edit permissions
- **Go:** Evaluator can open and view; cannot edit
- **No-Go:** Evaluator cannot access or has unintended edit permissions

## EVALUATOR NOTES

**Scoring:** 4 tasks. Go on 3 of 4 = overall Go. No-Go on Task 2 = automatic No-Go.

**Pre-exercise checklist:** - Confirm "EX\_20 Vehicle Availability Training Data" is visible to training accounts - Verify training accounts have Pipeline Builder and Workshop build permissions - Confirm NAMING\_AND\_GVERNANCE\_STANDARDS.md is accessible to participants

**Common failure modes:**

Task	Common Failure	Evaluator Guidance
Task 1	Cannot locate dataset	Direct to training project folder — one prompt allowed without penalty
Task 2	Output dataset name does not follow naming standards	Mark No-Go; cite specific standard violated; coach after evaluation
Task 2	Transform runs but row count is wrong	Verify 30-day filter applied correctly; common error is off-by-one on date boundary
Task 3	Filter widget present but has no effect on chart	Wiring issue (widget not connected to chart variable) — automatic No-Go
Task 4	Evaluator has edit access	Participant shared with wrong role; mark Task 4 No-Go

**Timing notes:** - Task 2 is critical path — budget up to 45 min for participants with no prior Pipeline Builder experience - Task 3 averages 25 min; participants familiar with Workshop finish faster - If participant finishes early, ask them to explain their naming choice for the output dataset (verbal check)

## NEXT STEPS

Upon successful completion of EX\_20, participants may branch based on role:

**All paths require SL 3 before any SL 4 track.** Proceed to SL 3 — Advanced Builder next.

After SL 3, branch based on role:

**WFF tracks — Warfighting Function application (prereq: SL 3 required):** - SL 4A — Intelligence (G2/S2 staff, targeting officers, all-source analysts) - SL 4B — Fires (FSE, fire support officers, targeting teams) - SL 4C — Movement & Maneuver (G3/S3 maneuver staff, operations officers) - SL 4D — Sustainment (G4/S4, FSB/BSB logistics staff) - SL 4E — Protection (force protection, CBRN, provost marshal) - SL 4F — Mission Command (G3/S3 staff, battle captains, XOs, CDRs)

**Specialist tracks — technical/analytical tracks (prereq: SL 3 required):** - SL 4G through SL 4O per specialist billet assignment