Identify and survey the run.

One three-page set per run, including practice / All observed values blank

Identity / matched condition	Enter actual values
Date / participant / trial ID	_____ / _____ / _____
Layout / order / shared proxy revision	B'72 □ B72 □ / First □ Second □ / _____
Scope / omissions file / photograph ID	Full □ Partial □ / _____ / _____
Run / condition / practice / retry	PR □ E1 □ E2 □ O1 □ / E □ O □ / PR □ / R1 □
Facilitator / observer / video	_____ / _____ / No □ Consented □
Participation / stop explained	Agreed □ / Stop explained □
Footwear / clothing / optional stature	_____ / _____ mm
T2 peers S1 / S2 / S6	_____ / _____ / _____
T6 occupants S1 / S2 / S4 / S5 / S6	_____ / _____ / _____ / _____ / _____
Vacancy / all other chairs empty and at rest	T2/S3,S5 □ T6/S3 □ A reserved □ Others □
Actual rest / fatigue before / fatigue after	_____ min / _____ / _____
A3 X,Y / A0 X,Y / rail print checks (mm)	____ , ____ / ____ , ____ / ____ (50 / 100 / 455 refs)
18000 baseline / 10000 baseline / diagonal	_____ / _____ / _____ mm
Long closure error / local controls at both ends	_____ mm / X,Y,diag: _____
Maximum local placement / angle error	_____ mm / _____ ° / Corrected □
All tables: footprint / height / base deviations	_____
A,B: footprint / seat / back / weight	A: _____ B: _____
Other 70 chairs / glides / floor differences	_____
Boundary height / thickness / end proxy height	_____ / _____ / _____ mm
Support feet / fixture omissions / setup revision	_____ _____

Use the same physical furniture, people, contents, floor and briefing in both layouts. Change only the four boundary shapes. Log unavoidable differences in a shared proxy revision. Model Z20 is not a support detail; measure real floor-to-seat heights.

Observe the eight actions.

Trial ID _____ Layout _____ Revision _____

Reference action / A=T2/S4; B=T6/S3	D / A / S / N	Actual sequence / contact / time
1 A out while seated	_____	_____ _____
2 Stand, leave A, travel to B; A stays out	_____	_____ _____
3 Pull B from standing	_____	_____ _____
4 Enter, sit, move B in, hold	_____	_____ _____
5 Pull B again, rise and leave	_____	_____ _____
6 Restore B while standing	_____	_____ _____
7 Travel back to A and sit while A is out	_____	_____ _____
8 Move A in; check both chairs before crew reset	_____	_____ _____

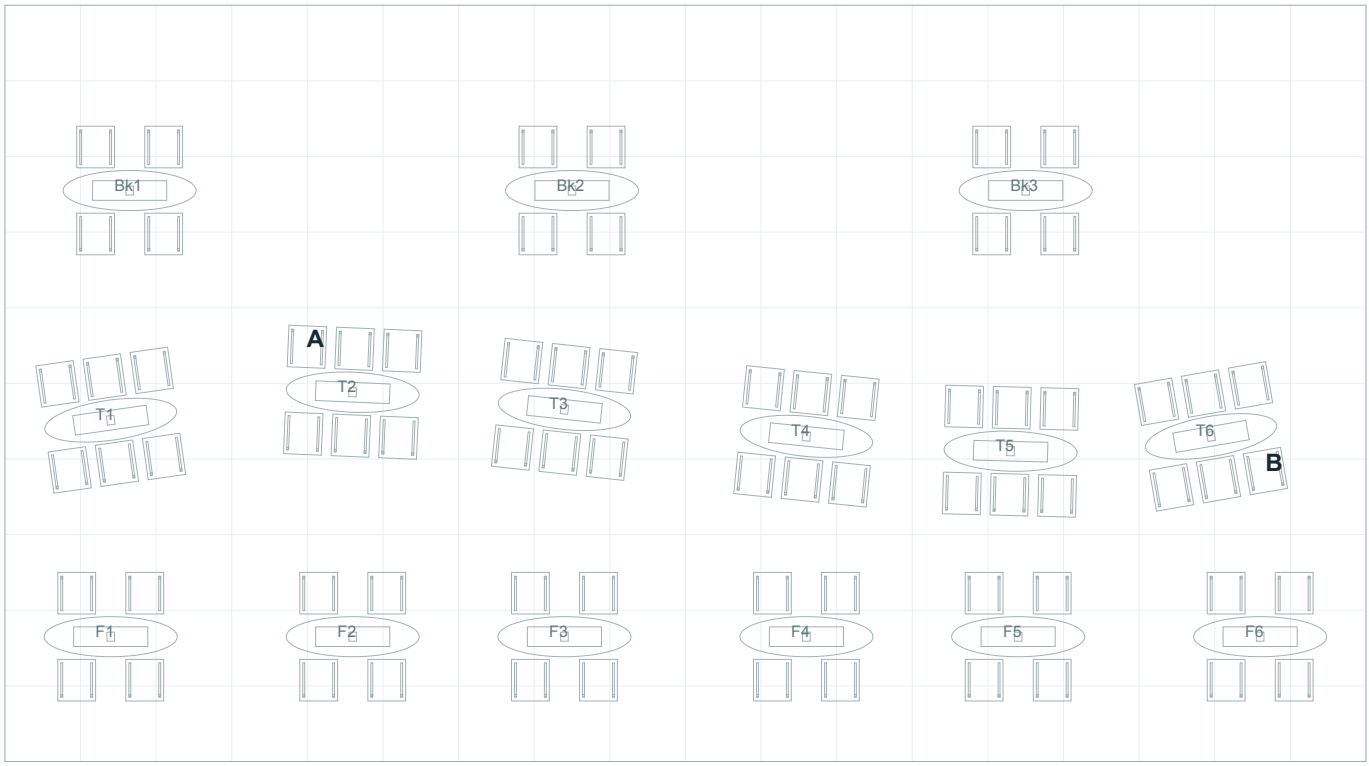
D = done unaided; A = assisted; S = stopped; N = reference action not used. Record natural differences. Expected seat/grip contact is allowed; stop for unexpected contact, discomfort, instability or request.

Chair handling / movement	Observed values / mark not measured where needed
A pull / B first pull / B second pull	_____ / _____ / _____ mm
A exit / B entry / B exit / A re-entry side	_____ / _____ / _____ / _____
Hand / grip / help or altered chair sequence	_____
A stayed out / changed by whom at which stage	Yes □ No □ / _____
End-glass horizontal X gap: B first / second pull	_____ / _____ mm / Not measured □
A / B final maximum foot-point displacement	_____ / _____ mm (includes rotation)
Go / A departure / B arrival / B settled timestamps	_____ / _____ / _____ / _____ s
Return cue / B departure / finish timestamps	_____ / _____ / _____ s
Total or stopped elapsed / actual seated hold	_____ s / _____ s

Trace, finish and decide.

Trial ID _____ Layout _____ Revision _____

Observer sketch / schematic 1:100 / 1 m grid / boundary not shown



Sketch outward solid, return dashed, stops numbered. Add the actual boundary/obstructions.

Outcome and evidence	Record actual observations
Overall outcome	Unaided complete □ Assisted complete □ Reset incomplete □ Stopped □ Not run □
Unexpected contact: stage / body part / object	_____
Stop / help / location / body and chair states	_____ _____
Twisting / discomfort / fatigue: participant wording	_____ _____
Route difference / pauses / optional measured distance	_____
Partial scope: actions tested / omissions / limits	_____
Crew reset / other 70 chairs / datum / next rest	Checked □ / _____
Retry ID / reason / new shared revision if needed	_____

Compare full E1/E2 with the same person and condition in the other layout. Keep O1, practice, partial builds, retries, help and stopped records separate. Never add partial station times. Reset target +/-5 mm is operational, not a comfort criterion. No scent added.