

Sample deliverable: demonstration data. This is actual rendered output from the CPP forensic toolkit, run on a fictional project. The methodology, detectors and calculations are the production ones; the activity codes, RFI numbers, change orders and party assignments are illustrative and were chosen to exercise the full range of forensic detectors. Nothing here is a real project, a real party, or a real claim. [See all sample deliverables](#) · criticalpathpartners.ca



Critical Path Partners

Forensic schedule analysis

Collapsed As-Built Dashboard · Ontario Community College - B2 (Demo Data)



Critical Path Partners

Forensic schedule analysis

Collapsed As-Built Dashboard

Ontario Community College - B2 (Demo Data) · AACE RP 29R-03 §3.8 (Modeled / Subtractive / Single Simulation)

Source XER

Ontario_Community_College_current.xer

Data date

2025-07-01

Calendar

Standard

Generated

2026-09-09

Dual-Method Status

AGREE

Gap 4.8% · methods converge $\leq 5\%$

Impact (wd)

20 wd

Events

3

Method

MIP 3.8

Anchor check: the schedule's stored finish and the CPM-recomputed finish agree (2026-09-30).

As-Built Finish

2026-09-30

post-impact actual

But-For Finish

2026-09-01

cumulative subtractive (counterfactual date)

Cumulative Impact

20_{wd}

working days · subtractive (MIP 3.8)

Events Analyzed

3

delay events in pass

Findings

Removing all 3 delay events from the as-built network pulls the project finish from 2026-09-30 to 2026-09-01, attributing 20 working days to the events analyzed. The removals act on the driving chain A4180 → A4190 → A4240; the collapse sequence at A-03 shows the finish stepping as each event is removed. The result is dual-method validated: the MIP 3.3 windows analysis reports 21 wd against this report's 20 wd, a gap of 4.8% (AGREE).

Method

For each documented delay event, the as-built network is cloned, the event's impact removed (by either shorten, reducing affected activity durations, or remove, deleting the affected activities and their TASKPRED edges), and the CPM forward pass re-run. The resulting project finish is the but-for [event] date. The differential between the as-built finish and the but-for finish is the event's attributed impact under the Modeled / Subtractive method.

Configuration. Default removal method is shorten (a per-event override applies when an event specifies its own removal_method). Contractor filter: No, every event in the input list contributes to the cumulative pass.

Default Removal

Contractor Filter

Base Schedule

shorten**No****Single**

Method

MIP 3.8

Modeled

Subtractive

Single Simulation

29R-03 §3.8

Basis of measurement How to read the numbers in this report

Day unit

Working days

Every day count in this deliverable is in working days. No calendar-day figure is displayed. Where a contract clause is quoted verbatim in calendar days, the computed equivalent is given in working days alongside.

Calendar

Standard

Deltas are counted on the activity's own P6 calendar via `work_day_delta`. Where no project calendar is available the documented fallback is Monday to Friday with no holidays, and that fallback is disclosed on the affected figure.

Date fields read

P6 Start and Finish columns only

Scheduling mode as read

retained logic (SCHEDOPTIONS sched_retained_logic=Y)

A positive number is working days attributed to the removed event

Convention: `event-attribution: impact = as-built finish - but-for finish` (positive = working days attributed to the removed event)

Impact is computed one way only: as-built finish minus but-for finish, counted in working days on the stated calendar. Removing a delay pulls the but-for finish earlier, so a genuine impact is always positive. A negative value would mean the removal pushed the finish later, which flags a modeling error, not time recovered.

Citations

- **AACE RP 29R-03**, Forensic Schedule Analysis Recommended Practice, §3.8 Modeled/Subtractive/Single Simulation (Collapsed As-Built / But-For), §3.9 Modeled/Subtractive/Multiple Base.
- **SCL Delay & Disruption Protocol**, 2nd ed., §11.5: TIA (forward) vs Collapsed As-Built (backward).
- **Wickwire et al., Construction Scheduling**, 4th ed., Ch. 10: But-For analysis; dual-method convergence as evidence of method reliability.
- **Bramble & Callahan, Construction Delay Claims**, 4th ed., §9.05: Collapsed As-Built methodology; practitioner-consensus dual-method convergence cut-offs.

● Input-uncertainty caveat

The subtractive method is sensitive to the input **impact_days** values. A $\pm 20\%$ input uncertainty on the per-event impact durations can swing the cumulative result by a similar amount. CPP practice (not an AACE 29R-03 §3.8 requirement) is to run a schedule risk analysis (Monte Carlo with duration uncertainty distributions) against the input durations and report the $P50 \pm P90$ range alongside the deterministic figures shown here. This dashboard reports a deterministic point estimate; opposing counsel should be expected to attack the input uncertainty on cross-examination. See the schedule-risk-analysis skill output for the corresponding probabilistic envelope.

● Concurrent-Delay Caveat

When two delays affect the project simultaneously on overlapping paths, the subtractive method (this skill) and windows analysis (forensic-delay-analysis MIP 3.3) can produce different attribution. The cumulative pass treats all delays as additive; if the project has concurrent owner-vs-contractor delays or two parallel critical chains, run a concurrent-delay analysis (forensic-delay-analysis windows method, AACE 29R-03 §3.3) and reconcile against the output below. Dual-method gaps **>10%** are a strong signal that concurrent delays are present.

A-02

Per-Event Subtractive Pass

[clone](#) · [remove impact](#) · [re-run forward pass](#)

For each delay event below, the as-built network was cloned, the event's impact removed using the indicated method, and the CPM forward pass re-run. The resulting "but-for" finish and computed impact are shown.

A-02

Subtractive register, all events listed

3 events, all listed

Event ID	Name	Affected Activities	Removal	As-Built Finish	But-For Finish	Impact (wd)	Responsible	Contractor?
E1	AHJ / commissioning-agent hold on MEP and elevator commissioning	A4180	shorten	2026-09-30	2026-09-23	5 wd	Owner	N
E2	Owner-directed re-sequence of integrated systems testing	A4190	shorten	2026-09-30	2026-09-23	5 wd	Owner	N
E3	Contractor punch-list and deficiency re-work	A4240	shorten	2026-09-30	2026-09-16	10 wd	Contractor	Y

Removal Basis & Finish-Driver Disclosure , all events listed

For each event: the duration removed and the basis used, plus what drives the but-for finish. A completed activity whose finish is on or before the data date cannot pull a successor whose start is pinned at the data-date floor, so the impact can legitimately be 0 even when a duration was removed. That sensitivity is disclosed below.

E1 · AHJ / commissioning-agent hold on MEP and elevator commissioning

Duration removed & basis: A4180: 15.0d→10.0d on CPM duration_days

Finish driver after removal: But-for finish is driven by activity 'A4240' via the live driving chain. The removed duration sits on that chain, so the collapse pulled the finish from 2026-09-30 to 2026-09-23.

E2 · Owner-directed re-sequence of integrated systems testing

Duration removed & basis: A4190: 10.0d→5.0d on CPM duration_days

Finish driver after removal: But-for finish is driven by activity 'A4240' via the live driving chain. The removed duration sits on that chain, so the collapse pulled the finish from 2026-09-30 to 2026-09-23.

E3 · Contractor punch-list and deficiency re-work

Duration removed & basis: A4240: 11.0d→1.0d on CPM duration_days

Finish driver after removal: But-for finish is driven by activity 'A4240' via the live driving chain. The removed duration sits on that chain, so the collapse pulled the finish from 2026-09-30 to 2026-09-16.

A-03

Cumulative Roll-Up

all events removed together · single subtractive pass

As-Built Finish

2026-09-30

post-impact actual

Cumulative But-For Finish

2026-09-01

all events removed

Cumulative Impact (Subtractive)

20 wd

as-built minus but-for (working days)

Collapse Sequence · Finish Steps

A4180 → A4190 → A4240

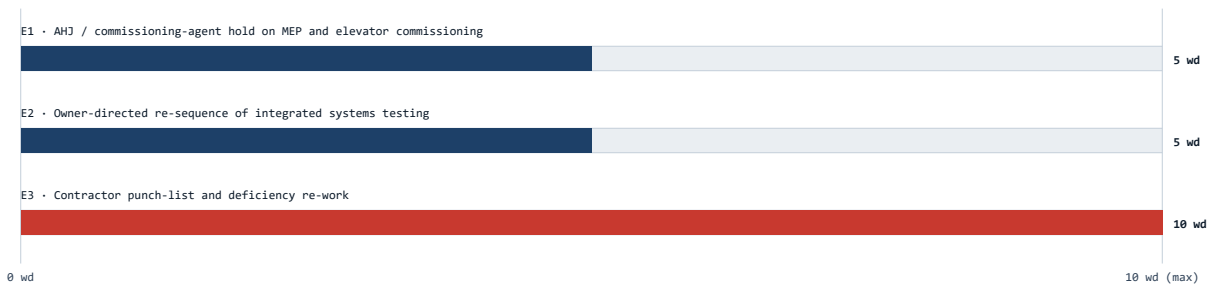


■ As-built finish (all delays in) ■ Finish after each additional removal

Each row removes one more event, in input order, and re-runs the CPM; the final row is the cumulative but-for finish. Marker position is scaled in working days from the as-built finish. The per-event register at A-02 removes each event alone, so its but-for dates legitimately differ from these progressive steps when events share the driving chain.

Per-Event Impact Distribution

E1 → E3



■ Largest single-event impact ■ Subordinate impact

E1 = 5 wd · E2 = 5 wd · E3 = 10 wd

Bars are scaled to the largest single-event impact; bar length is relative, not an absolute magnitude of delay.

A-04

Dual-Method Gap

MIP 3.3 (Windows) vs MIP 3.8 (Subtractive)

Convergence Status **AGREE · 4.8% GAP**

Threshold $\leq 5\%$

MIP 3.3 (Windows)

21 wd

observational dynamic (working days)

MIP 3.8 (Collapsed As-Built / Subtractive)

20 wd

modeled subtractive (working days)

Gap (Δ)

1 wd

windows minus subtractive (working days)

Gap %

4.8%

of windows result

AGREE

Both methods converge within the 5% practitioner-consensus tolerance. The forensic conclusion is dual-method validated.

Thresholds: AGREE $\leq 5\%$ · WARN 5-15% · INVESTIGATE $> 15\%$. Bands are forensic-engineering practitioner consensus per Bramble & Callahan §9.05 and Wickwire et al. Ch. 10. They are NOT codified numeric cut-offs in AACE RP 29R-03 (which permits more than one method in §5 but describes no cross-check and publishes no numeric tolerance percentages).

68 diagnostics across 7 detector codes. The triage strip below states, per detector, what its findings mean for the reliability of the but-for result; the full registers follow, grouped by detector, every entry listed.

Detector	ALERT	WARN	INFO	What it means for the but-for result
cpm/out-of-sequence	11	0	0	Work progressed out of logic order, so the as-built chain the removal walks may not be the chain the work actually followed; the removed duration can land on the wrong path.
cpm/post-data-date-actual	0	41	0	Actual dates are recorded after the data date, so the as-built network is partly forward-looking and the finish the collapse measures against may rest on unstatused work.
cpm/constraint-noop	0	7	0	A date constraint affected (or failed to affect) the pass as noted. A constrained date can hold the but-for finish in place and mask logic-driven movement.
cpm/constraint-applied	0	3	0	A date constraint affected (or failed to affect) the pass as noted. A constrained date can hold the but-for finish in place and mask logic-driven movement.
cpm/completed-succ-skipped-in-backward	0	0	4	Backward-pass float through completed chains is not meaningful; the forward-pass but-for finish is unaffected.
collapsed-calendar-basis	0	0	1	States which calendar the working-day figures are counted on (or that it had to be guessed). A different calendar changes working-day magnitudes, not the but-for dates themselves.
collapsed-schedule-options	0	0	1	States the P6 scheduling mode and relationship-lag calendar every CPM pass ran under, and how they were read from the export (SCHEDOPTIONS row, or the P6 default when the export omits it). Informational; a different mode or lag calendar would move the computed dates.

ALERT	cpm/out-of-sequence	Activity A2290 is complete but 1 predecessor(s) have no actual_start (retained-logic anomaly): A2220
ALERT	cpm/out-of-sequence	Activity A1130 started 2025-08-26 but 1 predecessor(s) started AFTER it (retained-logic anomaly): A1100.2 (started 2025-08-28)
ALERT	cpm/out-of-sequence	Activity A1630 started 2025-05-28 but 1 predecessor(s) started AFTER it (retained-logic anomaly): A1050 (started 2025-06-16)
ALERT	cpm/out-of-sequence	Activity A1110 started 2025-08-01 but 1 predecessor(s) started AFTER it (retained-logic anomaly): A1100.2 (started 2025-08-28)
ALERT	cpm/out-of-sequence	Activity A1480 started 2025-07-22 but 1 predecessor(s) started AFTER it (retained-logic anomaly): A1360.2 (started 2025-08-25)
ALERT	cpm/out-of-sequence	Activity A1490 started 2025-07-22 but 1 predecessor(s) started AFTER it (retained-logic anomaly): A1370,1 (started 2025-08-08)
ALERT	cpm/out-of-sequence	Activity A2510 started 2025-08-22 but 1 predecessor(s) started AFTER it (retained-logic anomaly): A1100.2 (started 2025-08-28)
ALERT	cpm/out-of-sequence	Activity A2520 started 2025-08-11 but 1 predecessor(s) started AFTER it (retained-logic anomaly): A2510 (started 2025-08-22)
ALERT	cpm/out-of-sequence	Activity A2530 is complete but 1 predecessor(s) have no actual_start (retained-logic anomaly): A5230
ALERT	cpm/out-of-sequence	Activity A2530 started 2025-08-11 but 3 predecessor(s) started AFTER it (retained-logic anomaly): A5220 (started 2025-08-28), A2550x (started 2025-08-21), A2490x (started 2025-08-14)
ALERT	cpm/out-of-sequence	Activity A2600 started 2025-08-15 but 1 predecessor(s) started AFTER it (retained-logic anomaly): A5250 (started 2025-09-04)

cpm/post-data-date-actual · 41 entries, all listed

WARN	cpm/post-data-date-actual	Activity A4340 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A3960 (started 2025-07-07)
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WARN	cpm/post-data-date-actual	Activity A3960 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A3920 (started 2025-07-04)
WARN	cpm/post-data-date-actual	Activity A1130 has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1100.1 (started 2025-08-08), A1100.2 (started 2025-08-28)
WARN	cpm/post-data-date-actual	Activity A1680 has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1100.1 (started 2025-08-08), A1100.2 (started 2025-08-28)
WARN	cpm/post-data-date-actual	Activity A1110 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1100.2 (started 2025-08-28)
WARN	cpm/post-data-date-actual	Activity A1480 has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1360.1 (started 2025-07-22), A1360.2 (started 2025-08-25)
WARN	cpm/post-data-date-actual	Activity A1490 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1370,1 (started 2025-08-08)
WARN	cpm/post-data-date-actual	Activity A1500 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A12380.1 (started 2025-07-22)
WARN	cpm/post-data-date-actual	Activity A2150 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1580 (started 2025-08-01)
WARN	cpm/post-data-date-actual	Activity A2160 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1570 (started 2025-07-11)
WARN	cpm/post-data-date-actual	Activity A1360.2 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1360.1 (started 2025-07-22)

WARN	cpm/post-data-date-actual	Activity A1470.1 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1470 (started 2025-07-15)
WARN	cpm/post-data-date-actual	Activity A1480.1 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1480 (started 2025-07-22)
WARN	cpm/post-data-date-actual	Activity A1540.1 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1540 (started 2025-07-11)
WARN	cpm/post-data-date-actual	Activity A3930 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A4340 (started 2025-07-14)
WARN	cpm/post-data-date-actual	Activity A4410 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A4390 (started 2025-08-11)
WARN	cpm/post-data-date-actual	Activity A2430x has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2420x (started 2025-07-14)
WARN	cpm/post-data-date-actual	Activity A2440x has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2430x (started 2025-07-15)
WARN	cpm/post-data-date-actual	Activity A2470x has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2440x (started 2025-07-25), A2460x (started 2025-07-24)
WARN	cpm/post-data-date-actual	Activity A2490x has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2480x (started 2025-08-13)
WARN	cpm/post-data-date-actual	Activity A2460x has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2450x (started 2025-07-18)

WARN	cpm/post-data-date-actual	Activity A2480x has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2470x (started 2025-08-08)
WARN	cpm/post-data-date-actual	Activity A1100.2 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1100.1 (started 2025-08-08)
WARN	cpm/post-data-date-actual	Activity A2370 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A5070 (started 2025-07-14)
WARN	cpm/post-data-date-actual	Activity A2380 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2370 (started 2025-07-16)
WARN	cpm/post-data-date-actual	Activity A2390 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2370 (started 2025-07-16)
WARN	cpm/post-data-date-actual	Activity A2400 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2390 (started 2025-07-22)
WARN	cpm/post-data-date-actual	Activity A2410 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2400 (started 2025-07-23)
WARN	cpm/post-data-date-actual	Activity A2420 has 3 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2380 (started 2025-07-23), A2410 (started 2025-07-24), A1660 (started 2025-07-03)
WARN	cpm/post-data-date-actual	Activity A2430 has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2400 (started 2025-07-23), A1660 (started 2025-07-03)
WARN	cpm/post-data-date-actual	Activity A2450 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2430 (started 2025-07-23)

WARN	cpm/post-data-date-actual	Activity A2460 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2450 (started 2025-07-23)
WARN	cpm/post-data-date-actual	Activity A2470 has 3 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2430 (started 2025-07-23), A2450 (started 2025-07-23), A2460 (started 2025-07-25)
WARN	cpm/post-data-date-actual	Activity A2490 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2470 (started 2025-07-28)
WARN	cpm/post-data-date-actual	Activity A2500 has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2470 (started 2025-07-28), A2490 (started 2025-07-28)
WARN	cpm/post-data-date-actual	Activity A2510 has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A1100.1 (started 2025-08-08), A1100.2 (started 2025-08-28)
WARN	cpm/post-data-date-actual	Activity A2520 has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2500 (started 2025-07-29), A2510 (started 2025-08-22)
WARN	cpm/post-data-date-actual	Activity A5220 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2520 (started 2025-08-11)
WARN	cpm/post-data-date-actual	Activity A2530 has 5 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2520 (started 2025-08-11), A5220 (started 2025-08-28), A2550x (started 2025-08-21), A2520x (started 2025-07-31), A2490x (started 2025-08-14)
WARN	cpm/post-data-date-actual	Activity A5250 has 1 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A2530 (started 2025-08-11)

WARN	cpm/post-data-date-actual	Activity A2600 has 2 predecessor(s) with actual_start AFTER the data_date (2025-07-01). Actuals after the schedule update window are a retroactive-edit signature: A5250 (started 2025-09-04), A2530 (started 2025-08-11)
cpm/constraint-noop · 7 entries, all listed		
WARN	cpm/constraint-noop	SNET on A2550x suppressed by actual_start (P6 forward-pass semantics: a recorded actual start governs ES)
WARN	cpm/constraint-noop	SNET on A2140 suppressed by actual_start (P6 forward-pass semantics: a recorded actual start governs ES)
WARN	cpm/constraint-noop	SNET on 2170 suppressed by actual_start (P6 forward-pass semantics: a recorded actual start governs ES)
WARN	cpm/constraint-noop	SNET on A2160 suppressed by actual_start (P6 forward-pass semantics: a recorded actual start governs ES)
WARN	cpm/constraint-noop	SNET on A2150 suppressed by actual_start (P6 forward-pass semantics: a recorded actual start governs ES)
WARN	cpm/constraint-noop	SNET on A2190 suppressed by actual_start (P6 forward-pass semantics: a recorded actual start governs ES)
WARN	cpm/constraint-noop	SNET on A2420 suppressed by actual_start (P6 forward-pass semantics: a recorded actual start governs ES)
cpm/constraint-applied · 3 entries, all listed		
WARN	cpm/constraint-applied	SNET on A2560x pushes ES from 2025-07-02 to 2025-08-18
WARN	cpm/constraint-applied	SNET on A3850 pushes ES from 2025-09-08 to 2025-09-10
WARN	cpm/constraint-applied	SNET on A2770 pushes ES from 2025-12-29 to 2026-04-13
cpm/completed-succ-skipped-in-backward · 4 entries, all listed		
INFO	cpm/completed-succ-skipped-in-backward	A5230: 1 completed successor(s) skipped in backward propagation (retained-logic semantics; completed activities do not pull predecessor LF backward through historical dates).
INFO	cpm/completed-succ-skipped-in-backward	A1360.2: 1 completed successor(s) skipped in backward propagation (retained-logic semantics; completed activities do not pull predecessor LF backward through historical dates).
INFO	cpm/completed-succ-skipped-in-backward	A2220: 1 completed successor(s) skipped in backward propagation (retained-logic semantics; completed activities do not pull predecessor LF backward through historical dates).

INFO	cpm/completed-succ-skipped-in-backward	A2550x: 1 completed successor(s) skipped in backward propagation (retained-logic semantics; completed activities do not pull predecessor LF backward through historical dates).
collapsed-calendar-basis · 1 entry, all listed		
INFO	collapsed-calendar-basis	Working-day figures (impact_workdays_collapsed, cumulative_impact_workdays and the dual-method gap) are stated on calendar 'Standard', resolved from PROJECT.clnr_id. The file carries 1 calendar(s).
collapsed-schedule-options · 1 entry, all listed		
INFO	collapsed-schedule-options	CPM passes run under scheduling mode 'retained_logic' (SCHEDOPTIONS sched_retained_logic=Y) with relationship lag on 'rcal_Predecessor' (SCHEDOPTIONS sched_calendar_on_relationship_lag=rcal_Predecessor).

Generated 2026-09-09
Source XER Ontario_Community_College_current.xer
Data date 2025-07-01
Calendar Standard
Method AACE 29R-03 §3.8
Standards SCL §11.5 · Wickwire Ch.10 · Bramble & Callahan §9.05

Input files: **Ontario_Community_College_current.xer** SHA-256 7ed1cd8309b1752af74ec9c8d2fa11fbc9a58d4e065630a2589809ed3780ca10

Collapsed As-Built / But-For Analysis · AACE RP 29R-03 §3.8 (Modeled/Subtractive/Single Simulation) · Generated 2026-09-09 · Engine **cpm-engine v2.9.43**

Reproducible · AACE 29R-03 §3.8 / SCL §11.5