

Construction Technology I Overview

• **Periods:** Full-year course • **Total Weeks:** 36 (4 grading periods of 9 weeks each)

• **TEKS Abbreviations:** CN = Construction Technology I TEKS

Example: CN1(A) = TEKS Strand 1, subskill A

GP	Wks	Unit & Focus	Major Learning Tasks & Assessments	Integrated TEKS	Extension Activities
1	1–2	Unit 1 – Employability & Safety Foundations	Professional standards; critical thinking and problem solving; basic computer systems; construction safety culture; OSHA; fall, ladder, stair, and scaffold safety; introductory career awareness	CN1(A–D) CN2(A–D) CN3(A)	Safety culture scenarios; OSHA/job-site safety activities; construction career spotlight
1	3–4	Unit 2 – Workplace Communication & Leadership	Computer use in construction; relationship skills; workplace issues; building materials and wood types/grades; introduction to framing systems	CN1(E–G) CN4(A–C) CN7(A)	Workplace communication scenarios; lumber/material identification; framing-system comparison
1	5–6	Unit 3 – Tools, Materials & PPE	Reinforce safety culture and OSHA expectations; identify building materials and hardwoods/softwoods; general power-tool safety	CN2(A–C) CN4(A–B) CN5(C)	PPE inspection; material ID stations; tool-safety demonstrations
1	7–9	Unit 4 – Construction Math & Measurement	Construction career connections; education, skills, and experience requirements; applied measurement and job-site math practice	CN3(A–B)	Career pathway research; measurement practice; applied estimating scenarios
2	10–12	Unit 5 – Hand & Power Tools	Safety culture; OSHA expectations; building materials; hardwoods/softwoods; general power-tool safety; Checkpoint 2A	CN2(A–C) CN4(A–B) CN5(C)	Tool identification and safe-operation practice; material selection; safety checkpoint
2	13–15	Unit 6 – Blueprint Reading & Construction Drawings	Plan types; line types; architectural and MEP symbols; abbreviations; plans/elevations/schedules/sections/details; specifications; quantity takeoff; bridging	CN6(A–I) CN7(F)	Blueprint symbol scavenger hunt; plan interpretation; quantity takeoff exercise
2	16–17	Unit 7 – Framing Concepts: Walls, Floors & Roofs	Wall and ceiling layout; wood-frame wall layout and erection; sheathing; masonry and metal-stud framing; ceiling joists; material estimating	CN8(A–I)	Wall-layout lab; framing mock-up; material estimate
2	18	Semester Exam (GP 1–2)	Cumulative review and written/practical semester exam	CN1–CN8 as taught	Skills review; safety review; drawing/framing application
3	19–22	Unit 8 – Exterior & Interior Finishing	Wall and ceiling layout; exterior wall assembly and erection; sheathing; framing methods; ceiling joists; material estimating	CN8(A–I)	Exterior wall/sheathing application; finishing-related material estimate
3	23–26	Unit 9 – Doors, Windows & Hardware	Apply wall-framing concepts to openings, including plates, corner posts, door/window openings, bracing, sheathing, and material estimating	CN8(A–I)	Door/window rough-opening layout; hardware application; framing estimate
3	27	Unit 10 – Construction Systems: Plumbing, Electrical & HVAC	Apply wall/ceiling framing and plan concepts in preparation for construction-system integration	CN8(A–I)	Systems-in-framing planning activity; coordination scenario
4	28–29	Unit 11 – Sustainability & Green Building Practices	Career connections; safety culture and OSHA; building-material selection; wood materials; power-tool safety in sustainable building contexts	CN3(A–B) CN2(A–C) CN4(A–B) CN5(C)	Green-material comparison; sustainable-building case study
4	30–33	Unit 12 – Capstone Build	Integrate employability, problem solving, safety, career awareness, materials, tool safety, construction drawings, quantity takeoff, and bridging in a construction build	CN1(A–D) CN2(A–D) CN3(A) CN4(A–B) CN5(C) CN6(A–I) CN7(F)	Capstone planning, material takeoff, build documentation, safety checks
4	34–35	Unit 13 – Capstone Completion & Show and Tell	Complete and present capstone work while demonstrating integrated employability, safety, materials, drawing-reading, framing, and construction skills	CN1(A–D) CN2(A–D) CN3(A) CN4(A–B) CN5(C) CN6(A–I) CN7(F) CN8(A–I)	Capstone completion; presentation/showcase; self-reflection
4	36	Semester Exam (GP 3–4)	Comprehensive second-semester exam and final skills reflection	All TEKS taught in GP 3–4	Project evaluation; practical skills review; final reflection

TEKS Coverage Checklist

Construction Technology I

TEKS Strand	YAG Unit(s)	TEKS Codes	Coverage Description
(1) Employability / Professional Skills	1, 2, 12, 13	CN1(A–G)	Professional standards, critical thinking, problem solving, computer systems and uses, relationship skills, and workplace issues
(2) Safety	1, 3, 5, 11, 12, 13	CN2(A–D)	Safety culture, OSHA, and fall/ladder/stair/scaffold safety
(3) Careers	1, 4, 11, 12, 13	CN3(A–B)	Construction occupations and duties; education, skills, and experience required for careers
(4) Building Materials	2, 3, 5, 11, 12, 13	CN4(A–C)	Building materials and uses; hardwoods and softwoods; wood grades and markings
(5) Power-Tool Safety	3, 5, 11, 12, 13	CN5(C)	General safety rules for operating power tools
(6) Construction Drawings	6, 12, 13	CN6(A–I)	Drawing types, lines, symbols, abbreviations, plan interpretation, specifications, and quantity takeoff
(7) Framing Systems	2, 6, 12, 13	CN7(A), CN7(F)	Types of framing systems and bridging
(8) Wall & Ceiling Framing	7, 8, 9, 10, 13	CN8(A–I)	Wall/ceiling layout, wall erection, sheathing, masonry/metal framing, ceiling joists, and material estimating

Source-alignment note: This reformatted YAG preserves the unit sequence and TEKS assignments in the provided Construction Tech I YAG. Where the source did not specify a unit duration, weeks were assigned within the stated grading period to create a reusable 36-week pacing structure. Calendar-specific target completion dates and checkpoint windows were intentionally removed.