



ACE[®]
Engineering Academy
Leading Institute for ESE/GATE/PSUs



AP-GENCO-TRANSCO- DISCOM's (EPDCL, SPDCL, CPDCL) Assistant Executive Engineer

Online Test Series

Civil Engineering - Schedule

No. of Tests : 15 + (15 <i>free</i> practice tests)		
	New Tests	Practice Tests
Subject Wise Tests	12	12
Full Length Mock Tests	3	3
Total Tests - 30		

Note:

- ❖ The Syllabus considered as per notification of AP-GENCO-TRANSCO-DISCOM's. ACE Engineering Academy does not take any responsibility for deviations in syllabus in the final exam.
- ❖ The dates of above tests may change according to the AP-GENCO-TRANSCO-DISCOM's exam schedule.
- ❖ Tests will be activated at 6:00 pm on scheduled day.
- ❖ All tests will remain active until the AP-GENCO-TRANSCO-DISCOM's examination.
- ❖ Test series available in ENGLISH medium only.

Subject-wise Tests

(No. of Questions: 30, Time duration: 54 Minutes and Marks: 30 M)

Test No	Name of the Test	Date of Activation
Test-01	Strength of Materials	30-06-2026
Test-02	General Awareness	01-07-2026
Test-03	Reinforced Concrete	03-07-2026
Test-04	Reasoning and General Intelligence	04-07-2026
Test-05	Soil Mechanics	06-07-2026
Test-06	English Language And Comprehension	07-07-2026
Test-07	Steel Structures	09-07-2026
Test-08	Quantitative Aptitude	10-07-2026
Test-09	Fluid Mechanics & Machinery-1	12-07-2026
Test-10	Computer Knowledge/Proficiency	13-07-2026
Test-11	Fluid Mechanics & Machinery-2	15-07-2026
Test-12	Foundation Engineering	18-07-2026

Full Length Mock Test Series

(No. of Questions: 100, Time duration: 180 Minutes and Marks: 100 M)

Test-13	Full Length Mock Test-1	25-07-2026
Test-14	Full Length Mock Test-2	01-08-2026
Test-15	Full Length Mock Test-3	08-08-2026

Free Practice Tests

Subject-wise Tests

(No.of Questions: 30, Time duration: 54 Minutes and Marks: 30 M)

Test No	Name of the Test	Date of Activation
Test-01	Strength of Materials	04-07-2026
Test-02	General Awareness	
Test-03	Reinforced Concrete	
Test-04	Reasoning and General Intelligence	
Test-05	Soil Mechanics	
Test-06	English Language And Comprehension	
Test-07	Steel Structures	
Test-08	Quantitative Aptitude	
Test-09	Fluid Mechanics & Machinery-1	
Test-10	Computer Knowledge/Proficiency	
Test-11	Fluid Mechanics & Machinery-2	
Test-12	Foundation Engineering	

Full Length Mock Test Series

(No.of Questions: 100, Time duration: 180 Minutes and Marks: 100 M)

Test-13	Full Length Mock Test-1	06-07-2026
Test-14	Full Length Mock Test-2	
Test-15	Full Length Mock Test-3	

Syllabus

Strength of Materials: Simple stresses and strains. Hooke's law. Stress strain curve for mild steel, elastic constants, compound bars, temperature stresses, strain energy, resilience, impact loading, SFD and BMD for simple cantilever and overhanging beams. Centre of gravity and moment of inertia, bending and shear stress distributions. Theory of pure torsion, helical spring, thin and thick cylinders, analysis of trusses by method of joints and method of sections, combined direct and bending stresses, column and struts, deflection of beams-double integration, moment area and conjugate beam methods.

Reinforced Concrete: Basic reinforcing materials, tests on cement and aggregates, Structural concrete and its grades, workability tests and concrete mix design. Singly and doubly reinforced beams, working stress design of rectangular and flanged beams shear bond, development length and torsion in beams, one-way and two-way slabs, axially and eccentrically loaded columns, isolated and combined footings. Basic concepts of limit state design and its applications to the design of beams, slabs and columns.

Soil Mechanics: Physical properties of soils, classification and identification, permeability, capillarity, seepage, compaction, shear strength, Earth pressure, slope stability.

Steel Structures: Grades of steels, design of simple and compound beams, riveted and welded joints, riveted and welded connections eccentric framed and seated, simple and compound columns, slab and gusseted bases, grillage foundations, roof trusses, plastic analysis-plastic bending of beams, shape factor, plastic analysis theorems, and analysis of fixed, propped cantilever beams by static and kinematic methods.

Fluid Mechanics & Machinery: Fluid properties, pressure measurements, manometers, forces on plane and curved surfaces, center of pressure, principle of buoyancy, stability of floating and submerged bodies, meta centre, Kinematics of fluid flow, equation of continuity. Euler's and Bernoulli's equations, Impulse-momentum, flow measuring devices-orifices and mouth pieces, notches and weirs, flow through pipes, open channel flow, impact of jets-stationery and moving vanes (flat and curved), radial vanes, hydraulic turbines, pumps and machinery.

Foundation Engineering: Stress distribution in soils, bearing capacity, settlement analysis, pile foundation, Cofferdams, Caissons, Dewatering, Bracing for excavations, site investigations, New mark charts, Machine foundation.