

## **CPII Examination Self-Assessment Form**

Job Task	None	Introductory	Applied	Advanced
This details the specific tasks that are tested on the CPII examination with the percentage of the test	No	Understand general	Use and	Implementation of
dedicated to each section. The list was developed by a methodical and comprehensive investigation into	familiarity	or basic process.	mastery of basic	•
the skills required for effective public infrastructure inspection.	with task	May not be a	techniques, yet	techniques;
Use this tool to rate how you perceive your level of knowledge in each area.	With task	responsibility;	limited use of	understanding of
Develop your study plan based on the results.		perform task	advanced	dependencies and
Develop your study plant based on the results.		infrequently	techniques	contingencies
DOMAIN 1: TESTING, MEASUREMENT AND INSPECTION 43-44%		equently	- Commques	Contingences
A. Underground Construction (17 items)				
1. Inspect and utilize pans, specification and construction methods for:				
a. storm sewers				
b. water systems				
c. sanitary sewers				
d. other utility systems				
2. Inspect job site materials for compliance per approved plans (e.g., pipe, backfill, manholes, and valves).				
3. Conduct inspections within rights-of-way for:				
a. utility installation (open or trenchless).				
b. utility taps.				
c. trench backfill.				
d. discontinued or interrupted services.				
4. Verify and document the following tests for installation of sewer infrastructure:				
a. mandrel test.				
b. air test.				
c. vacuum test.				
d. video inspection.				
e. infiltration/exfiltration.				
5. Monitor hydro-static pressure testing on sewer and water lines.				
6. Utilize testing of water systems for chlorine residual and bacteria.				
7. Verify the location of valves to ensure accessibility.				
8. Exercise safety procedures while entering confined spaces or dangerous areas.				
B. At-Grade Construction (19 items)	None	Introductory	Applied	Advanced
Inspect and utilize plans, specifications, and construction methods for:	None	introductory	Арриса	Advanced
a. curb and gutter construction.				
b. paving.				
c. sidewalk and driveway approach construction.				
d. restoration work (e.g., fine grading, sod, seedbed preparation work).				
e. pavement marking.				
f. traffic signal and street light installations.				
g. other traffic control.				
h. erosion control.				
2. Conduct inspections within rights-of-way for:				
a. driveways				
b. sidewalks and curb ramps.				
c. curb and gutter construction.				
d. streets.				
e. sign installation.				
f. traffic control.				
g. clearing and grubbing.				
h. erosion and siltation/sedimentation control installations.				
3. Propose minor field modifications oof line and grade (e.g., match existing features, achieve drainage).				
4. Verify and record the location of valve boxes and manhole covers prior to removal.				
5. Inspect traffic control with construction zones.				
C. Structural Construction: (7 items)	None	Introductory	Applied	Advanced
Inspect and utilize pans, specification and construction methods for:	Tronic -	The balactory	- tolone a	- iu vanioca
a. bridges.				
b. forming systems.				
c. reinforcing steel.				
d. reinforcing steel. d. reinforced concrete structures.			<del>                                     </del>	
e. treatment facilities.			<del>                                     </del>	
	None	Introductory	Applied	Advanced
D. General Construction Fundamentals: (22 items)  1. Inspect and utilize pans, specification for line and grade.	None	Introductory	Applied	Advanced
1. mspect and utilize pans, specification for line and grade.				
2. Perform inspections utilizing measurement tools (e.g., survey instruments, digital levels, thermometers).				
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3. Verify calibration of measurement tools.			<del> </del>	

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Job Task	None	Introductory	Applied	Advanced
4. Inspect materials for compliance per approved plans (e.g., asphalt, concrete, and aggregate).				
5. Demonstrate Knowledge of pavement preservation (e.g., microsurface, rejuvenator, seals).  6. Perform mathematical calculations to determine:				
a. percent of grade.				
b. invert elevations.				
c. cross slopes.				
d. super elevations.				
e. volume.				
f. area.				
g. stationing.				
h. density				
i. unit conversions.				
j. feet in inches vs. feet in tenths.				
7. Compare the batch ticket information to the approved mix design.				
The compare the saton tioner information to the approved mix design.				
8. Apply the minimum requirements for accepting/rejecting soils (e.g., moisture, compaction, stabilization).				
9. Review geotechnical reports.				
10. Utilize specialized technologies (e.g., unmanned aerial drones, GPS, and GIS mapping).				
11. Perform pre-construction inspection of existing conditions.				
DOMAIN 2: PROJECT PLANNING AND MANAGEMENT 25%				
A. Planning: (13 items)	None	Introductory	Applied	Advanced
1. Review plans and specifications.				
2. Review Shop drawings and submittals.				
3. Verify contractor licenses and permits.				
4. Estimate quantities of construction materials.				
5. Report rights-of-way activities to various agencies.				
6. Recognize when to coordinate with other agencies/stakeholders.				
7. Identify when to inform management of variances in schedule or other problems.				
8. Perform constructability reviews.				
B. Management: (25 items)	None	Introductory	Applied	Advanced
1. Review concrete placement schedule with contractor.				
2. Recommend the acceptance of projects through the use of:				
a. completed punch list items.				
b. final walk-through inspections.				
c. warranty inspections.				
3. Recognize when a change order is needed and make applicable recommendations.				
4. Prepare change orders.				
5. Record time and material work.				
6. Record project changes to create as-built plans.				
7. Review as-built plans.				
8. Utilize various software programs (e.g., Access, Excel, CAD, Word).				
9. Utilize communication skills to provide project information and schedules to stakeholders.				
10. Assess current progress and adherence to schedule and duration limits.				
11. Compute estimates of work completed and review payment to contractors.				
12. Investigate and respond to citizen concerns.				
13. Practice according to the elements of the APWA standards of professional conduct.				
DOMAIN 3: PROJECT COMPLIANCE AND DOCUMENTATION 31-32%				
A. Compliance: (27 items)	None	Introductory	Applied	Advanced
1. Interpret and ensure compliance with plans, specifications, and construction methods for ADA				
compliance.				
2. Demonstrate knowledge of codes and specifications.				
3. Demonstrate compliance with contract documents regarding:				
a. standards for construction.				
b. regulatory agency permits.				
c. measurement and payment.				
d. quality assurance program for material sampling and testing.				
4. Demonstrate knowledge of construction safety standards.				
5. Perform post-construction inspection and compare with pre-construction conditions.				
<ul><li>5. Perform post-construction inspection and compare with pre-construction conditions.</li><li>6. Demonstrate compliance with environmental controls (e.g., dust, erosion, tracking).</li></ul>				
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d. on-site discussions with contractor's staff.				
e. weather.				
f. materials testing activities.				
g. sketches.				
3. Assemble photographic record of the project.				
4. Produce and integrate project logs (e.g., change orders, submittals, and notices).				
5. Document the accuracy of dimensions of installations ad layouts.				