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 dedicated to each section. The list was developed by a methodical and comprehensive investigation in the miliarity the skills required for effective public infrastructure inspection.

Use this tool to rate how you perceive your level of knowledge in each area.

Develop your study plan based on the results.

- 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)

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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.				
7. Compare the baton toxic information to the approved mix design.				
8. Apply the minimum requirements for accepting/rejecting soils (e.g., moisture, compaction, stabilize	ation)			
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
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.				
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.				
6. Demonstrate compliance with environmental controls (e.g., dust, erosion, tracking).				
7. Integrate materials testing reports with project requirements.				
8. Demonstrate knowledge of violation/non-compliance notices and stop-work orders.				
B. Documentation: (20 items)	None	Introductory	Applied	Advanced
Evaluate documented quantities of construction materials.				
Utilize documentation standards for daily project diaries/reports covering:				
a. manpower.				
b. equipment use.				
c. type of work performed.				
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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.				