

The California Supplemental Examination is designed to assess your knowledge and experience as *applied* to job activities of landscape architects. The California Supplemental Examination is structured into **weighted** content areas.

The examination plan represents job tasks and knowledge, skills, and abilities that licensees are expected to know and perform at the time of licensure. Examination questions are developed directly from specific tasks and the KSAs associated with those tasks in the examination plan.

There are 100 questions in the California Supplemental Examination. Each of the questions is a direct question (*What, Where, Why, When, etc.*) with four choices. Only **ONE** of the four choices is the correct answer. You will have a maximum of **TWO** hours to complete the examination.

I. Problem Definition (3%) - This area assesses the candidate's ability to establish a scope of work that meets the client's goals and objectives.

T5. Consult with client to develop project parameters (e.g., purposes, expected outcomes, issues) based on project goals and objectives to assist in preparing project proposal.

K10. Knowledge of information to include when developing project parameters (e.g., purposes, expected outcomes, issues).

II. Inventory (22%) - This area assesses the candidate's ability to evaluate the project site to identify site and surrounding conditions.

A. Site Inventory (14%)

T6. Identify existing site conditions (e.g., natural, cultural, site features, infrastructure) to determine influences that affect development of project site.

10 site conditions
natural
cultural
features
infrastructure

K15. Knowledge of procedures used to identify existing site conditions (e.g., natural, cultural, site features, infrastructure).

K16. Knowledge of types of natural conditions that should be identified.

K17. Knowledge of types of cultural conditions that should be identified.

K18. Knowledge of types of site features that should be identified.

K19. Knowledge of types of infrastructures that should be identified.

esa
- purposes for identifying
- procedures used to identify

K20. Knowledge of procedures used to identify environmentally sensitive resources.

K21. Knowledge of purposes for identifying existing site conditions (e.g., natural, cultural, site features, infrastructure).

T9. Identify data (e.g., survey, soil analysis) needed to assist in development of project site.

10 site data
land survey
soil analysis
water table
groundwater

K28. Knowledge of procedures used to identify data (e.g., survey, soil, analysis) needed in development of project site.

K29. Knowledge of types of data (e.g., survey, soil, analysis) used in development of project site.

K30. Knowledge of purposes for identifying data (e.g., survey, soil, analysis) used in development of project site.

T7. Identify off-site conditions (e.g., water shed, views, circulation, land use) to determine influences that affect development of project site.

10 off-site condit.
water shed
views
circulation
land use

K20. Knowledge of procedures used to identify environmentally sensitive resources.

K23. Knowledge of types of off-site conditions that should be identified.

K24. Knowledge of purposes for identifying off-site conditions (e.g., water shed, views, circulation, land use).

T8. Identify potentially hazardous areas (e.g., fire hazards, slope instability, toxics) of project site to address in development of project site.

ID hazards

K25. Knowledge of procedures used to identify potentially hazardous areas (e.g., fire hazards, slope instability, toxics).

fire
slope instability

K26. Knowledge of types of areas that would be considered potentially hazardous (e.g., fire hazards, slope instability, toxics) areas.

toxics

B. Regulatory Assessment (8%)

T13. Evaluate project site to determine relevant laws, codes, and regulations that govern the project.

determine laws, codes
regulation that:

K39. Knowledge of procedures used to evaluate project site to determine relevant laws, codes, and regulations that govern the project.

govern the project
govern the work

K40. Knowledge of laws, codes, and regulations that govern types of work to be completed on project site.

T14. Identify required approvals (i.e., regulatory, lender, agency) to implement the design of the project.

ID required approvals

K42. Knowledge of procedures used to identify required approvals (e.g., regulatory, lender, agency).

- regulatory

K43. Knowledge of types of required approvals (e.g., regulatory, lender, agency) needed to implement the project.

- lender

T10. Identify sources of data (e.g., consultants, agencies, publications, field work) required to evaluate project site.

- agencies

K31. Knowledge of procedures used to identify sources of data (e.g., consultants, agencies, publications, field work) regarding project site.

ID sources of data

K32. Knowledge of types of sources of data (e.g., consultants, agencies, publications, field work) that should be identified.

III. Analysis (10%) - This area assesses the candidate's ability to evaluate site conditions to determine opportunities and constraints of the project site as it relates to the client's goals and objectives.

A. Site Analysis (7%)

T15. Evaluate existing site conditions (e.g., natural, cultural, site features, infrastructure) to identify influences that affect development of project site.

Eval exist site conditions to
id influences that may affect
the project

K46. Knowledge of types of natural conditions that should be evaluated.

K45. Knowledge of procedures used to evaluate existing site conditions (e.g., natural, cultural, site features, infrastructure).

K47. Knowledge of types of cultural conditions that should be evaluated.

K48. Knowledge of types of site features that should be evaluated.

K49. Knowledge of types of infrastructures that should be evaluated.

K50. Knowledge of purposes for evaluating existing site conditions (e.g., natural, cultural, site features, infrastructure).

K52. Knowledge of types of off-site conditions that should be identified.

K61. Knowledge of information to include in natural resource preservation (e.g., biological assessments, endangered species) plans/reports.

K62. Knowledge of types of environmentally sensitive resources that should be evaluated.

T16. Evaluate off-site conditions (e.g., water shed, views, circulation, land use) to identify influences that affect development of project site.

Eval off-site conditions

*watershed } natural
views } cultural
circulation } site features
land use } infrastructures*

K46. Knowledge of types of natural conditions that should be evaluated.

K47. Knowledge of types of cultural conditions that should be evaluated.

K48. Knowledge of types of site features that should be evaluated.

K49. Knowledge of types of infrastructures that should be evaluated.

procedures used

K51. Knowledge of procedures used to evaluate off-site conditions (e.g., water shed, views, circulation, land use).

K52. Knowledge of types of off-site conditions that should be identified.

types of purposes for

K53. Knowledge of purposes for identifying off-site conditions (e.g., water shed, views, circulation, land use).

K61. Knowledge of information to include in natural resource preservation (e.g., biological assessments, endangered species) plans/reports.

K62. Knowledge of types of environmentally sensitive resources that should be evaluated.

B. Regulatory Compliance (3%)

T17. Evaluate environmental documents (e.g., NOE, NMD, EIR) to identify influences that affect development of project site.

K54. Knowledge of procedures used to evaluate environmental documents (e.g., NOE, NMD, EIR).

K55. Knowledge of purposes for evaluating environmental documents (e.g., NOE, NMD, EIR).

T21. Evaluate political entities (e.g., homeowner associations, coastal commission) to identify opportunities and constraints of project site development.

*political
- HOAs*

K63. Knowledge of procedures used to evaluate political entities (e.g., homeowners associations, coastal commission).

*- coastal comm
- councils*

K64. Knowledge of purposes for evaluating political entities.

IV. Programming (2%) - This area assesses the candidate's ability to identify program element(s) for the purpose of preparing project requirements that meet the client's goals and objectives.

T29. Develop a preliminary project schedule to assist in program development.

develop a prelim

K81. Knowledge of information to consider when developing a preliminary project schedule.

project schedule

V. Development and Evaluation of Alternative Solutions (11%) - This area assesses the candidate's ability to develop, evaluate, and refine alternatives for the project and prepare recommendations.

A. Development of Project Alternatives (4%)

T44. Develop design solutions for water management (e.g., rain harvesting, planting design, and storm water management) to assist in resource preservation.

develop design sol for water management

K116. Knowledge of procedures used to develop design solutions for water management (e.g., rain harvesting, planting design, and storm water management).

*procedures } rain harvesting
planting design
design sol } (s.w. mgt.)*

K117. Knowledge of types of design solutions used for water management (e.g., rain harvesting, planting design, and storm water management).

T45. Develop design solutions for sustainable development (e.g., material use, land management, energy conservation) to assist in resource preservation.

develop design sol for sustainable development

*procedures } material use
types of des sol } land mgt
energy consv.*

K118. Knowledge of procedures used to develop design solutions for sustainable development (e.g., material use, land management, energy conservation).

K119. Knowledge of types of design solutions used for sustainable development (e.g., material use, land management, energy conservation).

B. Planning Alternative Solutions (7%)

T38. Evaluate project alternatives based on on-site influences to assist in selecting preferred alternative.

*evaluate project alternatives
info to get from consultants*

K93. Knowledge of information to elicit from consultants (e.g., engineers, architects, biologists) regarding development of project alternatives.

procedures to eval proj alts

K94. Knowledge of procedures used to evaluate project alternatives (e.g., land use, site selection, design concept) for project.

info to consider

K102. Knowledge of information to consider about on-site influences when selecting a preferred alternative.

K103. Knowledge of purposes for evaluating project alternatives based on on-site influences.

T36. Evaluate cost implications of project alternatives to assist in selecting preferred alternative.

evaluate cost vs alternai

K97. Knowledge of information to consider when evaluating cost implications of project alternatives.

T42. Evaluate project alternatives for regulatory compliance to assist in selecting preferred alternative.

regulatory vs alts

K109. Knowledge of procedures used to evaluate project alternatives for impact to natural and cultural resources that require approval by regulatory agencies to assist in selecting preferred alternatives.

K110. Knowledge of information to consider when evaluating project alternatives for impact to natural and cultural resources that require approval by regulatory agencies to assist in selecting preferred alternatives.

K111. Knowledge of purposes for evaluating project alternatives for impact to natural and cultural resources that require approval by regulatory agencies to assist in selecting preferred alternatives.

K112. Knowledge of procedures used to evaluate project alternatives for regulatory compliance.

K113. Knowledge of information to consider when evaluating project alternatives for regulatory compliance.

K140. Knowledge of information to elicit from regulatory agencies during the planning process.

VI. Design Development (27%) - This area assesses the candidate's ability to develop a design solution to meet the client's needs.

T77. Design landscape plan to identify vegetation areas and types to facilitate implementation of project.

K197. Knowledge of procedures used to design landscape plans for identifying vegetation areas and types.

K198. Knowledge of information to consider when designing landscape plans for identifying vegetation areas and types.

T76. Select materials, finishes, and colors to be used in the construction of the project.

K195. Knowledge of types of materials, finishes, and colors used during selection for project construction.

K196. Knowledge of purposes used to select materials, finishes, and colors for construction of project.

T71. Design site features (e.g., pavilions, furnishings, water features) for project site to facilitate implementation of project.

K168. Knowledge of procedures used to obtain accessibility for individuals with disabilities (e.g., ADA and Title 24).

K182. Knowledge of procedures used to design site features (e.g., pavilions, furnishings, water features) for project site.

K183. Knowledge of information to consider when designing site features (e.g., pavilions, furnishings, water features) for project site.

K184. Knowledge of information to elicit from consultants (e.g., architects, engineers) and public agencies to integrate architectural and landscape elements.

T66. Design nonvehicular circulation systems (e.g., pedestrian, equestrian) on project site to facilitate implementation of project.

K168. Knowledge of procedures used to obtain accessibility for individuals with disabilities (e.g., ADA and Title 24).

K169. Knowledge of information from ADA and Title 24 to consider when designing nonvehicular circulation systems (e.g., pedestrian, equestrian).

K170. Knowledge of purposes for using ADA and Title 24 when designing nonvehicular circulation systems (e.g., pedestrian, equestrian).

K171. Knowledge of procedures used to design nonvehicular circulation systems (e.g., pedestrian, equestrian).

K172. Knowledge of information to consider when designing nonvehicular circulation systems (e.g., pedestrian, equestrian).

K184. Knowledge of information to elicit from consultants (e.g., architects, engineers) and public agencies to integrate architectural and landscape elements.

T78. Design irrigation plan (e.g., hydrozones, point of connection, water source) to facilitate implementation of project.

K184. Knowledge of information to elicit from consultants (e.g., architects, engineers) and public agencies to integrate architectural and landscape elements.

K199. Knowledge of procedures used to design irrigation plan (e.g., hydrozones, point of connection, water source). *AB 518
grate opening with the dir
of travel*

K200. Knowledge of information to consider when designing irrigation plan (e.g., hydrozones, point of connection, water source).

T79. Design site lighting layout plan (e.g., fixture selection, light quality, regulatory) to facilitate implementation of project.

K176. Knowledge of procedures used to design site layout for safety, security, and crime prevention. *Calgreen veg
mawa match*

K177. Knowledge of information to consider when designing site layout for safety, security, and crime prevention.

K184. Knowledge of information to elicit from consultants (e.g., architects, engineers) and public agencies to integrate architectural and landscape elements.

K201. Knowledge of procedures used to design site lighting layout plan (e.g., fixture selection, light quality, regulatory).

K202. Knowledge of information to consider when designing site lighting layout plan (e.g., fixture selection, light quality, regulatory).

T64. Assist client in obtaining required approvals (i.e., regulatory, lender) to facilitate implementation of project.

K160. Knowledge of types of required approvals (i.e., regulatory, lender) client will have to obtain for implementation of project.

K161. Knowledge of purposes for obtaining required approvals (i.e., regulatory, lender).

T65. Design vehicular circulation systems (e.g., car, bicycle, emergency, service, transit) to facilitate implementation of project.

K164. Knowledge of information to consider when designing vehicular fire access circulation systems. *info to consider when des. safety veh access*

K165. Knowledge of information to consider from ADA and Title 24 when designing vehicular circulation systems (e.g., car, bicycle, emergency, service, transit). *info to consider for vehicular circ.*

K166. Knowledge of purposes for using ADA and Title 24 when designing vehicular circulation systems (e.g., car, bicycle, emergency, service, transit). *ADA/title 24 purposes for*

K167. Knowledge of information to consider when designing vehicular circulation systems (e.g., car, bicycle, emergency, service, transit). *info to consider*

K168. Knowledge of procedures used to obtain accessibility for individuals with disabilities (e.g., ADA and Title 24). *procedures to obtain*

K184. Knowledge of information to elicit from consultants (e.g., architects, engineers) and public agencies to integrate architectural and landscape elements.

T70. Collaborate with consultants (e.g., civil engineers, soils engineers, architects) and public agencies to develop best management practices for storm water management (e.g., runoff quantity, retention/detention needs) to facilitate implementation of project.

K180. Knowledge of information to elicit from consultants (e.g., civil engineers, soils engineers, architects) and public agencies to develop best management practices for storm water management (e.g., runoff quantity, retention/detention needs). *develop BMPs - info, purposes for*

K181. Knowledge of purposes for collaborating with consultants (e.g., civil engineers, soils engineers, architects) and public agencies to develop best management practices for storm water management (e.g., runoff quantity, retention/detention needs).

T68. Design site layout for safety, security, and crime prevention to facilitate implementation of project.

K176. Knowledge of procedures used to design site layout for safety, security, and crime prevention. *safety, security, crime prevention*

K177. Knowledge of information to consider when designing site layout for safety, security, and crime prevention. *info to consider*

K184. Knowledge of information to elicit from consultants (e.g., architects, engineers) and public agencies to integrate architectural and landscape elements.

VII. Construction Documents (22%) - This area assesses the candidate's ability to prepare plan(s), specification(s), and estimate(s) in preparation for project construction.

A. Contract Plans (19%)

T92. Prepare planting plan to be used for project site construction.

K237. Knowledge of procedures used to prepare planting plan for project site construction. *prepare P S & E*

K238. Knowledge of information to consider when preparing planting plan for project site construction. *planting - info to consider*

K255. Knowledge of procedures used to prepare fuel modification plan (e.g., fire protection planting) for project site construction. *fire - protection, fuel mod*

planting

restoration

K256. Knowledge of information to consider when preparing fuel modification plan (e.g., fire protection planting) for project site construction.

K258. Knowledge of information to consider when preparing landscape restoration plan for project site construction.

T97. Prepare construction details (e.g., paving, planting, irrigation) to be used for project site construction.

const details - paving planting irrig

K250. Knowledge of information to consider when preparing construction details (e.g., paving, planting, irrigation) for project site construction.

info to consider, purposes for

K251. Knowledge of purposes for preparing construction details (e.g., paving, planting, irrigation) for project site construction.

T86. Prepare hardscape plan (e.g., paving, site furnishings) to be used for project site construction.

hardscape - paving site furnishings

K174. Knowledge of information to consider when designing signage systems (e.g., way finding, informational, ADA, interpretative).

- signage - ADA, way finding

K220. Knowledge of information to consider when preparing hardscape plan (e.g., paving, site furnishings).

T93. Prepare irrigation plan to be used for project site construction.

irrigation - info to consider, purposes

K239. Knowledge of procedures used to prepare irrigation plan for project site construction.

*- design
- water calcs*

K240. Knowledge of information to consider when preparing irrigation plan for project site construction.

K241. Knowledge of procedures used to prepare water use calculations.

K242. Knowledge of information to consider when preparing water use calculations.

T84. Prepare vegetation preservation plans to protect project site vegetation.

veg preservation plan

K214. Knowledge of procedures used to prepare vegetation preservation plan.

info to consider, purpose for

K215. Knowledge of information to consider when preparing vegetation preservation plan.

K216. Knowledge of purposes for preparing vegetation preservation plan.

T89. Prepare subsurface drainage plan (e.g., pipe sizes, invert elevations) to be used for project site construction.

subsurface drainage plan

K230. Knowledge of purposes for preparing subsurface drainage plan (e.g., pipe sizes, invert elevations).

K231. Knowledge of procedures used to prepare storm water detention/retention plan for project site construction.

K232. Knowledge of information to consider when preparing storm water detention/retention plan for project site construction.

K233. Knowledge of purposes for preparing storm water detention/retention plan for project site construction.

T94. Prepare water use calculations to be used for regulatory compliance.

water calc (MWA)

K241. Knowledge of procedures used to prepare water use calculations.

info to consider

K242. Knowledge of information to consider when preparing water use calculations.

purposes for

K243. Knowledge of purposes for preparing water use calculations.

B. Contract Specifications and Estimates (3%)

T104. Prepare technical specifications for project plan to be used for project site construction. *technical specs for const*

K259. Knowledge of procedures used to prepare maintenance manuals (e.g., landscape maintenance, irrigation schedule) for maintaining project. *procedures to coord. ssp w/ plans*

K260. Knowledge of information to consider when preparing maintenance manuals (e.g., landscape maintenance, irrigation schedule) for maintaining project. *specs for maintenance*

K261. Knowledge of purposes for preparing maintenance manuals (e.g., landscape maintenance, irrigation schedule) for maintaining project. *purposes for*

K271. Knowledge of procedures used to coordinate specifications with construction drawings when verifying consistency.

VIII. Implementation (3%) - This area assesses the candidate's ability to perform construction observations, review material submittals, and facilitate project construction to completion.

T119. Evaluate plant materials to determine whether materials are acceptable. *Evaluate plant material procedures to*

K305. Knowledge of procedures used to evaluate plant materials.

K306. Knowledge of information to consider when evaluating plant materials. *info to consider when*