

1.2.1 Systems Planning  
 1.3.1 Subarea/Corridor Planning  
 1.4.1 Land Planning/Engineering  
 1.5.1 Feasibility Studies  
 1.6.1 Major Investment Studies  
 1.8.1 Public Involvement  
 2.13.1 Hazardous Materials Initial Site Assessment  
 2.14.1 Environmental Document Preparation  
 3.2.1 Route Studies & Schematic Design  
 4.2.1 Roadway Design  
 4.4.1 Freeway Interchanges  
 5.2.1 Bridge Design  
 5.3.1 Multi-Level Interchange Design  
 5.5.1 Bridge & Non-Bridge Class Culvert & Inlet Design  
 6.1.1 Routine Bridge Inspection Team Leader  
 7.3.1 Traffic Signal Timing  
 8.1.1 Signing, Pavement Marking & Channelization  
 8.2.1 Illumination  
 8.3.1 Signalization  
 8.6.1 Rail-Highway Design  
 9.1.1 Bicycle & Pedestrian Facility Development  
 10.1.1 Hydrologic Studies  
 10.2.1 Roadway Hydraulic Design  
 10.3.1 Bridge Hydraulic Design  
 10.4.1 Storm Water Pump Station-Hydraulic Design  
 10.4.3 Pump Stations-Structures  
 10.5.1 Bridge Scour Evaluations & Analysis  
 11.1.1 Roadway Construction Management & Inspection  
 11.2.1 Bridge Construction Management & Inspection  
 11.3.1 Construction Superintendent  
 11.4.1 Environmental Inspections  
 14.3.1 Transportation Foundation Studies  
 15.1.1 Right-of-Way Surveys  
 15.2.1 Design Survey  
 15.2.2 Construction Survey  
 15.3.5 Horizontal & Vertical Control  
 18.2.1 Subsurface Utility Engineering  
 18.3.1 Utility Adjustment Coordination  
 18.4.1 Utility Engineering  
 18.5.1 Utility Construction Management & Verification  
 18.6.1 Utility Management & Coordination Oversight

## Number of Personnel Precertified

2 Transportation Systems Planning  
 (1.1.1 - 1.8.1)  
  
 2 Environmental Studies  
 (2.14.1)  
  
 6 Route Studies and Schematic Design  
 (3.2.1)  
  
 10 Roadway Design & Freeway Interchanges  
 (4.2.1 and 4.4.1)  
  
 3 Bridge Design  
 (5.2.1 - 5.5.1)  
  
 2 Bridge Inspection  
 (6.1.1)  
  
 1 Traffic Engineering  
 (7.1.1)  
  
 7 Traffic Operations & Rail-Highway Design  
 (8.1.1 - 8.6.1)  
  
 5 Bicycle and Pedestrian Facilities  
 (9.1.1)  
  
 12 Hydraulic Design & Analysis  
 (10.1.1 - 10.5.1)  
  
 5 Construction Management Inspection  
 (11.1.1 - 11.4.1)  
  
 2 Geotechnical Studies  
 (14.3.1)  
  
 4 Surveying & Mapping Services  
 (15.1.1 - 15.3.5)  
  
 5 Utility Engineering & Coordination  
 (18.2.1 - 18.6.1)