

## **Airport Engineer 2018 Job Knowledge Areas**

1. Knowledge of engineering principles and practices related to civil, structural, electrical, mechanical, and/or communications engineering for the planning, design, construction, commissioning, activation, maintenance, and operation of airport facilities and infrastructure in order to meet operational necessities of the airports.
2. Knowledge of technical requirements and regulations related to the Federal Aviation Administration (FAA) and Transportation Security Administration (TSA) standards, including standards related to airport design, construction standards, and/or airfield pavement design standards, in order to ensure the safety of the airport facilities.
3. Knowledge of the layout, functions, and components of various airfield operational areas (AOA), including runway and taxiway movements, cargo operations, remain overnight parking (RON), ground service equipment, and/or aircraft maintenance areas, in order to appropriately plan future airside improvements, such as expansions of runways.
4. Knowledge of the layout, functions, and components of various airport terminal facilities, including bridges, gates, and/or baggage systems, in order to plan and prepare designs, specifications, schedules, and estimates for airport passenger terminal facilities and complete future terminal improvements.
5. Knowledge of the Los Angeles World Airports (LAWA) policies and operations related to airport safety, including security badging requirements, airfield and terminal access restrictions, and information technology security, in order to comply with LAWA security plans and ensure the safety of airport operations.

6. Knowledge of Federal, State, and City laws and regulations concerning the design, construction, planning, troubleshooting, maintenance, and operating functions of LAWA or similar airports, such as Federal Aviation Administration (FAA), Part 139 requirements, and FAA Advisory Circulars requirements, in order to maintain compliance with the Federal Aviation Administration and Department of Homeland Security.
  
7. Knowledge of the legal requirements of contracts, leases, and permits as they relate to the Los Angeles World Airports projects, such as contracts for construction, professional services, and tenant lease agreements, in order to oversee the execution and oversight of each and facilitate tenant coordination.