BUS OPERATIONS

Chief Bus Controller/ Bus Operations Control Centre Controller/ Deputy Bus Operations Control Centre Manager/ Bus Operations Control Centre Manager

Job description: The Chief Bus Controller/bus Operations Control Centre Controller performs daily operations at the Bus Operations Control Centre (BOCC) to ensure bus service reliability on the road. He works closely with Bus Captains and other stakeholders to regulate bus services in real-time environment to maintain bus service performance standards and minimise service delays. He also provides on-the-job coaching to Bus Captains and is required to respond to emergencies and restore bus service disruptions, assist in investigation and documentation of incidents and/or accidents. He takes on administrative duties in data compilation and contributes towards continuous improvement by providing feedback on gaps observed in operational activities. The manager oversees and supervises the team within BOCC, work with relevant authorities and other stakeholders to uphold and improve bus service performance standards and manages team performance, manpower allocation, training and budgeting.

Current Job Tasks	Future view of job tasks	Impact at task-level	change	
Perform daily operations in BOCC to ensure bus service reliability by regulating bus services in real-time environment, bus monitoring and supervising to ensure bus follows schedules	Require additional basic knowledge on how EV buseswork on top of ICE buses Work closely with both ICE and EV bus captains to regulate bus services through intelligent transport systems such as computer aided dispatch, schedule adherence support, service compliance which are highly automated	•		
Provide on-the-job coaching to Bus Captains according to bus service standards by providing constructive advice for service improvements	Continue to have overview of bus service standards and corresponding bus captain assigned to the bus route, provide constructive advice to bus captains for service improvements		Current/future skills To take on adjacent/ new job role(s) the skills below will observe these changes:	
Provide support to emergencies, incidents, accidents and bus service disruptions when buses are inside/ outside of interchanges/ depots by providing situation analysis and best approach solution to resolve the crisis	Human intervention and judgment remain critical in executing crisis management procedures and support for emergencies Require to have knowledge in EV bus systems and EV vehicle operations on top of ICE bus systems and vehicle operations to provide proper analysis of service disruptions and provide best approach to resolve the crisis/ emergency	•	Bus Operations Control Management Bus Regulatory Compliance Workplace Safety and Health for Incident and Accident Investigation Continuous Improvement Management Crisis Management Health and Fatigue Risk Management	
Improve bus service performance standards through consistent reviews and improvements to current practices	Bus service performance standards will be consistently reviewed and improved similarly to current practices		Manpower Planning and Development Organisational Planning and Target Setting Data and Statistical Analytics EV Dashboard Diagnostic EV Fleet System Planning	



A MEDIUM proportion of the job tasks will be impacted by the key trend, thus minimising or changing the current job tasks

MEDIUM degree of change



Within the next 10 years, the job role(s) could potentially undergo

REDESIGN



Current/future skills

- · Bus Operations Control Management
- · Bus Regulatory Compliance
- Workplace Safety and Health for Incident and Accident Investigation
- · Continuous Improvement Management
- Crisis Management
- · Health and Fatigue Risk Management
- · Manpower Planning and Development
- · Data and Statistical Analytics
- · EV Dashboard Diagnostic
- · EV Fleet System Planning



Job Adjacency

The job holder could potentially take on adjacent job roles as:

- · Transportation manager
- · EV Fleet Manager



10-year skills impact analysis for bus operations

Job tasks today	Job tasks in 10 years	Job skills in 10 years	Job task impact	Job role impact	Job role transition	
1. Perform daily operations at bus interchange/ bus depot such as monitoring and regulating bus arrival and departure timings; driving buses within the interchange/ depot if required	_	Bus Interchange Operations Bus Depot Operations Bus Operations Control Management EV Fleet System Planning	Medium degree of impact	Redesign	Transportation manager Bus Operations Control Centre Controller EV Fleet Manager	
Provide customer service in the interchange for commuters, conduct security checks, facilitate traffic and crowd control	Continue to provide customer service in the interchange for commuters, conduct security checks, facilitate traffic and crowd control	Service Excellence				
3. Provide support to emergencies, incidents, accidents in the interchange/ depot for vehicle-related and commuter-related	Continue to provide support to emergencies, incidents, accidents in the interchange/ depot however vehicle-related service disruptions will need EV diagnostic	Crisis Management Workplace Traffic Safety Management Workplace Safety and Health for Incident and Accident Investigation EV Dashboard Diagnostic				
4. Support compliance to organisational and legislative requirements and improve ICE bus service performance standards	Continue to support compliance to organisational and legislative requirements and improve bus service performance standards	Bus Regulatory Compliance Continuous Improvement Management				
Declining Functions	Monitoring and regulating ICE buses – arrival and departure, scheduling, regulating and supervising operations					
Emerging Functions	-	egulating ICE and EV buses – arrival and departure, scheduling, regulating	ng and supervisin	goperations		

Table 28: 10-year skills impact for bus operations



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20-year skills impact analysis for bus operations

Job tasks today	Job tasks in 20 years	Job skills in 20 years	Job task impact	Job role impact	Job role transition	
Perform daily operations at bus interchange/ bus depot such as monitoring and regulating bus arrival and departure timings; driving buses within the interchange/ depot if required	departure timings through intelligent transport systems such as computer aided dispatch,	Bus Interchange Operations Bus Depot Operations Bus Operations Control Management EV Fleet System Planning AV Planning and Route Management	Medium degree of impact	e of	Transportation manager Bus Operations Control Centre Controller EV Fleet Manager AV Fleet Manager	
Provide customer service in the interchange for commuters, conduct security checks, facilitate traffic and crowd control		Service Excellence				
3. Provide support to emergencies, incidents, accidents in the interchange/ depot for vehicle-related and commuter-related		Crisis Management Workplace Traffic Safety Management Workplace Safety and Health for Incident and Accident Investigation EV Dashboard Diagnostic AV Dashboard Diagnostic				
4. Support compliance to organisational and legislative requirements and improve ICE bus service performance standards	11	Bus Regulatory Compliance Continuous Improvement Management				
Declining Functions	Monitoring and regulating ICE buses – arrival and departure, scheduling, regulating and supervising operations					
Emerging Functions	Automated and advanced high level monitoring and regulating ICE and EV buses – arrival and departure, scheduling, regulating and supervising operations					

Table 29: 20-year skills impact for bus operations



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