

STANDARD KOMPETENSI – KESELAMATAN JALAN

TAHAP 2

Elemen	Kriteria Prestasi
Rekabentuk Jalan	<p>Mempunyai pengetahuan asas seperti:</p> <ul style="list-style-type: none"> a. Geometri <i>-vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc</i> b. <i>Road furniture</i> <i>-road marking, road sign, traffic barrier, curb etc</i> c. <i>Drainage</i> <i>-surface run-off etc</i> d. <i>Road lighting</i> <i>-Location, placement of pole, offset etc</i> e. <i>Traffic lighting</i> <i>-phasing, location, numbers of pole, jenis aspek lampu dll.</i>
Audit Keselamatan Jalan (1-3)	<p>Mempunyai pemahaman/pengetahuan asas seperti:</p> <ol style="list-style-type: none"> 1. Rekabentuk Konsep <i>-Traffic generators, terminal awal/akhir, development areas, habitat, intersection & access etc</i> 2. Rekabentuk Awalan <ul style="list-style-type: none"> a. Geometri <i>- vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc</i> 3. Rekabentuk Terperinci <ul style="list-style-type: none"> a. Geometri <i>-vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc</i> b. <i>Road furniture</i> <i>-road marking, road sign, traffic barrier, curb etc</i> c. <i>Drainage</i> <i>-surface run-off etc</i> d. <i>Road lighting</i> <i>-Location, placement of pole, offset etc</i> e. <i>Traffic lighting</i> <i>-phasing, location, numbers of pole, jenis aspek lampu etc</i> f. <i>Traffic Management At Work Zone (TMWZ)</i> <i>-Work zone, signages, traffic control devices, construction phase, lighting, delination etc.</i>

Rawatan Lokasi Kerap Berlaku Kemalangan	<p>Mempunyai pengetahuan asas seperti:</p> <ul style="list-style-type: none"> a. Geometri <i>-horizontal, vertical, superelevation, cross-section etc</i> b. <i>Road furniture</i> <i>- road marking, road sign, traffic barrier, curb etc</i> c. Penilaian pavement <i>-skid resistance, road surface defects, surface runoff etc</i> d. <i>Road lighting</i> <i>-Location, placement of pole, offset etc</i> e. <i>Intersection</i> <i>-traffic signs, numbers of pole, location etc</i> f. Penilaian POL27 -analisa Borang POL27 g. Analisa kemalangan <i>-stick diagram, collision diagram, Analisa makro kemalangan</i> h. Kajian had laju <i>-minimum had laju, location etc</i> i. <i>Counter measure</i> -penambahbaikan tapak
Trafik Semasa Pembinaan	<p>Mempunyai pengetahuan asas seperti:</p> <ul style="list-style-type: none"> a. <i>Traffic Management At Work Zone (TMWZ)</i> <i>-Work zone, signages, traffic control devices, construction phase, lighting, delination etc.</i> a. laporan TMSR <i>-phasing of report submission, drawing, location</i> b. Tugas-tugas TMO <i>-scope, report, drawing etc</i> c. Ciri-ciri kawasan pembinaan <i>-type of carriageway</i> d. Alat kawalan trafik <i>-type of traffic devices, signages etc</i> e. ERT <i>-location, traffic, carriageway, diversion</i> f. Flagmen <i>-type of flagmen</i>

Rekabentuk Persimpangan	Mempunyai pengetahuan asas seperti: a. <i>Traffic lighting</i> <i>-phasing, location, numbers of pole</i> b. <i>Intersection</i> <i>-traffic signs, numbers of pole, location etc</i> c. Geometri <i>-vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc</i>
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TAHAP 3

Elemen	Kriteria Prestasi
<i>Road Safety Inspection</i>	Mempunyai pengetahuan dan berkebolehan menyemak seperti: a. <i>Road furniture</i> <i>- road marking, road sign, traffic barrier, curb etc</i> b. <i>Traffic study</i> <i>-volume, type of vehicle, carriageway etc</i> c. Penilaian <i>pavement</i> <i>-defects, skid resistance, type of testing etc</i> d. Geometri <i>-vertical, horizontal, cross-section, cross-fall, super elevation, k-value, gradient, sight distance etc</i> e. <i>Intersection</i> <i>- traffic signs, numbers of pole, location etc</i>
Siasatan Kemalangan	Mempunyai pengetahuan dan berkebolehan menyemak seperti: a. Penilaian pavemen <i>-defects, skid resistance, type of testing etc</i> b. Penilaian geometri <i>-vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc</i> c. Penilaian terhadap kesan-kesan kemalangan <i>-stretch mark on pavement etc</i> d. Penilaian POL27

	<p>-analisa</p> <p>e. Kajian had laju -minimum had laju, <i>location</i> dll</p>
<i>Traffic Engineering Study</i>	<p>Mempunyai pengetahuan dan berkebolehan menyemak seperti:</p> <ul style="list-style-type: none"> a. Cerapan kelajuan kenderaan -analisa, <i>85th percentile</i> b. Kajian konflik -<i>type of conflict, countermeasure, location etc</i> c. <i>Swept path</i> kenderaan berat -<i>length, type</i> d. Kajian had laju -minimum had laju, <i>location etc</i>
Pengurusan Trafik Sewaktu Pembinaan	<p>Mempunyai pengetahuan dan berkebolehan menyemak seperti:</p> <ul style="list-style-type: none"> a. <i>Traffic Management At Work Zone (TMWZ)</i> -<i>Work zone, signages, traffic control devices, construction phase, lighting, deliniation etc.</i> a. laporan TMSR -<i>phasing of report submission, drawing, location</i> b. Tugas-tugas TMO -<i>scope, report, drawing etc</i> g. Ciri-ciri kawasan pembinaan -<i>type of carriageway</i> h. Alat kawalan trafik -<i>type of traffic devices, signages etc</i> i. <i>ERT</i> -<i>location, traffic, carriageway, diversion</i> j. <i>Flagmen</i> -jenis-jenis
Fasiliti Keselamatan Jalan	<p>Mempunyai pengetahuan dan berkebolehan menyemak seperti:</p> <ul style="list-style-type: none"> a. Waran jejantas,lampu jalan dan lampu isyarat -syarat-syarat, <i>location, situasi, development area</i> b. <i>Traffic calming</i> -jenis-jenis, <i>location etc</i> c. Delinasi -<i>type of delineation, min SRV, location</i> d. Fasiliti motosikal, pejalan kaki, basikal, kenderaan

	<p>-jenis-jenis, <i>location, development area, signages etc</i></p> <p>e. <i>Signboard</i> had laju -jenis-jenis, <i>location</i> dll.</p>
<i>Road Side Development</i>	<p>Mempunyai pengetahuan dan berkebolehan menyemak seperti:</p> <ul style="list-style-type: none"> a. Persimpangan -<i>location</i> b. <i>AC/DC</i> -<i>min length, traffic volume, speed etc</i> c. <i>Island</i> -<i>size, location, type etc</i> d. <i>Median</i> -<i>type, location, length, size etc</i> e. <i>Location of intersection</i> -<i>before and after</i> f. <i>Road marking, signboard</i> -jenis-jenis, <i>size, location, numbers etc</i> g. <i>Sight distance</i> -<i>min length, location etc</i> h. <i>Traffic calming</i> - jenis-jenis, <i>location</i> dll.

TAHAP 4

Elemen	Kriteria Prestasi
<i>Road Assessment Program (Irap)</i>	<p>Mempunyai pengetahuan dan berkebolehan mengesahkan seperti:</p> <ul style="list-style-type: none"> a. Kaedah cerapan data IRAP -penggunaan, cara-cara dll. b. Analisa data cerapan -software, steps etc c. Konsep <i>star rating</i> -cara-cara, analisa dll. d. Menyediakan <i>Strategic Investment Plan</i>
<i>Road Safety Management & Strategies</i>	<p>Mempunyai pengetahuan dan berkebolehan mengesahkan seperti:</p> <ul style="list-style-type: none"> a. <i>Road safety management</i> -type, strategies etc b. <i>Road safety officer</i>, tugas dan tanggungjawab RSO -kriteria, job scope etc c. Pengurusan had laju d. <i>Road safety approach (active/passive)</i> e. <i>Road accident index</i> f. <i>National road safety plan</i> -pillars, programmes, prevention, reduction etc
<i>Traffic Calming</i>	<p>Mempunyai pengetahuan dan berkebolehan mengesahkan seperti:</p> <ul style="list-style-type: none"> a. Kaedah fasiliti jalan -type, devices, location etc b. Kaedah <i>traffic calming</i> -type, devices, signages location etc c. Kawalan Halaju Kenderaan d. Pengurusan Trafik
<i>Road Safety Analysis & Economic Assessment</i>	<p>Mempunyai pengetahuan dan berkebolehan mengesahkan seperti:</p> <ul style="list-style-type: none"> a. <i>Analysis cost benefit ratio (BCA)</i> b. <i>cost of project based on option</i> c. <i>analysis based on option</i> d. <i>Analysis First Year Rate of Return (FYR)</i> e. Pemahaman <i>Accident Cost & Accident Saving</i>