

STANDARD KOMPETENSI – KESELAMATAN JALAN

TAHAP 2

Elemen	Kriteria Prestasi
Rekabentuk Jalan	<p>Mempunyai pengetahuan asas seperti:</p> <ol style="list-style-type: none"> a. Geometri <i>-vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc</i> b. Road furniture <i>-road marking, road sign, traffic barrier, curb etc</i> c. Drainage <i>-surface run-off etc</i> d. Road lighting <i>-Location, placement of pole, offset etc</i> e. Traffic lighting <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 <ol 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 <ol style="list-style-type: none"> a. Geometri <i>-vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc</i> b. Road furniture <i>-road marking, road sign, traffic barrier, curb etc</i> c. Drainage <i>-surface run-off etc</i> d. Road lighting <i>-Location, placement of pole, offset etc</i> e. Traffic lighting <i>-phasing, location, numbers of pole, jenis aspek lampu etc</i> f. Traffic Management At Work Zone (TMWZ) <i>-Work zone, signages, traffic control devices, construction phase, lighting, deliniation etc.</i>

<p>Rawatan Lokasi Kerap Berlaku Kemalangan</p>	<p>Mempunyai pengetahuan asas seperti:</p> <ol style="list-style-type: none"> a. Geometri <i>-horizontal, vertical, superelevation, cross-section etc</i> b. Road furniture <i>- road marking, road sign, traffic barrier, curb etc</i> c. Penilaian pavement <i>-skid resistance, road surface defects, surface runoff etc</i> d. Road lighting <i>-Location, placement of pole, offset etc</i> e. Intersection <i>-traffic signs, numbers of pole, location etc</i> f. Penilaian POL27 <i>-analisa Borang POL27</i> g. Analisa kemalangan <i>-stick diagram, collision diagram, Analisa makro kemalangan</i> h. Kajian had laju <i>-minimum had laju, location etc</i> i. Counter measure <i>-penambahbaikan tapak</i>
<p>Trafik Semasa Pembinaan</p>	<p>Mempunyai pengetahuan asas seperti:</p> <ol style="list-style-type: none"> a. Traffic Management At Work Zone (TMWZ) <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>

<p>Rekabentuk Persimpangan</p>	<p>Mempunyai pengetahuan asas seperti:</p> <ul style="list-style-type: none"> a. <i>Traffic lighting</i> -phasing, location, numbers of pole b. <i>Intersection</i> -traffic signs, numbers of pole, location etc c. <i>Geometri</i> -vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc
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TAHAP 3

Elemen	Kriteria Prestasi
<p><i>Road Safety Inspection</i></p>	<p>Mempunyai pengetahuan dan berkebolehan menyemak seperti:</p> <ul style="list-style-type: none"> a. <i>Road furniture</i> - road marking, road sign, traffic barrier, curb etc b. <i>Traffic study</i> -volume, type of vehicle, carriageway etc c. <i>Penilaian pavement</i> -defects, skid resistance, type of testing etc d. <i>Geometri</i> -vertical, horizontal, cross-section, cross-fall, super elevation, k-value, gradient, sight distance etc e. <i>Intersection</i> - traffic signs, numbers of pole, location etc
<p>Siasatan Kemalangan</p>	<p>Mempunyai pengetahuan dan berkebolehan menyemak seperti:</p> <ul style="list-style-type: none"> a. <i>Penilaian pavemen</i> -defects, skid resistance, type of testing etc b. <i>Penilaian geometri</i> -vertical, horizontal, cross-section, cross-fall, superelevation, k-value, gradient, sight distance etc c. <i>Penilaian terhadap kesan-kesan kemalangan</i> -stretch mark on pavement etc d. <i>Penilaian POL27</i>

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

	<p>-jenis-jenis, <i>location</i>, <i>development area</i>, <i>signages etc</i></p> <p>e. <i>Signboard</i> had laju -jenis-jenis, <i>location</i> dll.</p>
<p><i>Road Side Development</i></p>	<p>Mempunyai pengetahuan dan berkebolehan menyemak seperti:</p> <ul style="list-style-type: none"> a. <i>Persimpangan</i> -<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> -<i>jenis-jenis, size, location, numbers etc</i> g. <i>Sight distance</i> -<i>min length, location etc</i> h. <i>Traffic calming</i> - <i>jenis-jenis, 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 -<i>software, steps etc</i> 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> -<i>type, strategies etc</i> b. <i>Road safety officer</i>, tugas dan tanggungjawab RSO -<i>kriteria, job scope etc</i> 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> -<i>pillars, programmes, prevention, reduction etc</i>
<i>Traffic Calming</i>	<p>Mempunyai pengetahuan dan berkebolehan mengesahkan seperti:</p> <ul style="list-style-type: none"> a. Kaedah fasiliti jalan -<i>type, devices, location etc</i> b. Kaedah <i>traffic calming</i> -<i>type, devices, signages location etc</i> 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>