



**भारतीय राजमार्ग अभियन्ता अकादमी**  
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)  
**Indian Academy of Highway Engineers**  
(Ministry of Road Transport and Highways, Govt. of India)

## Performance Based Maintenance Contracts

Date & Time	Description of Topic	Faculty (TBD)
<b>Day-1</b>		
09:45-13:00	<b>Asset Management and Principles, Prioritization and Investment Decision, Overview of HDM-4 and International Practices</b> <ul style="list-style-type: none"> <li>➤ AM Systems &amp; Process</li> <li>➤ Components/Parts of Asset Management</li> <li>➤ Goals &amp; Objectives</li> <li>➤ Software Tools</li> <li>➤ Data requirement</li> <li>➤ Advantages</li> <li>➤ Policies &amp; Institutional Framework</li> <li>➤ Case Studies</li> <li>➤ Performance Indicators</li> <li>➤ Cost estimation</li> <li>➤ Analysis Options</li> <li>➤ Rating Condition and Priority Indices</li> <li>➤ Network &amp; Project Level Prioritization</li> <li>➤ Optimization</li> <li>➤ Sensitivity Analysis</li> <li>➤ Implementation and review programs</li> <li>➤ O&amp;M Rating</li> <li>➤ Overview of HDM-4 applications</li> </ul>	
14:00-17:15	<b>Road and Bridge Inventory, Condition Survey &amp; Rating</b> <ul style="list-style-type: none"> <li>➤ Inventory and Inspection</li> <li>➤ Condition Survey (Type, Extent &amp; Severity of Distresses)</li> <li>➤ Modern Data Collection Techniques: NSV, Drones, Lidar, Satellite imagery, IRI, FWD, Skid Resistance</li> <li>➤ Pavement Evaluation- Functional Structural</li> <li>➤ Prediction models, Rating</li> <li>➤ Modern Data Collection Techniques: NSV, MBIU, Drones, Lidar</li> <li>➤ Bridge Evaluation and Rating</li> <li>➤ Special considerations for roads in hilly terrain</li> <li>➤ Examples</li> </ul>	
<b>Day-2</b>		
09:45-13:00	<b>Maintenance, Repair and Rehabilitation of Pavements (Flexible and Rigid) and other project facilities</b> <ul style="list-style-type: none"> <li>➤ Reasons for Distresses</li> </ul>	

Please note: All correspondence should be addressed to the Director by designation only

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**BHARATMALA**  
ROAD TO PROSPERITY



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	<ul style="list-style-type: none"> <li>➤ Methods of Repair &amp; Rehabilitation</li> <li>➤ New Materials and Techniques</li> <li>➤ Performance Evaluation</li> <li>➤ Case Studies</li> <li>➤ Special considerations for roads in hilly terrain</li> </ul>	
14:00-17:15	<b>Maintenance, Repair and Rehabilitation of Project Facilities and other Components</b> <ul style="list-style-type: none"> <li>➤ Toll Plazas</li> <li>➤ Shoulder</li> <li>➤ Embankment Slope</li> <li>➤ Drain</li> <li>➤ Crash Barrier</li> <li>➤ Signs &amp; Marking</li> <li>➤ Median, Footpath</li> <li>➤ Street Lighting</li> <li>➤ Special considerations for roads in hilly terrain</li> </ul>	
<b>Day-3</b>		
09:45-15:30	TOR & RFP of Performance Based Maintenance Contracts & Short Term Maintenance Contract, Important provisions of contract, Level of Service, Key Performance Indicators, Performance assessment, Awards & Penalties, continued	
15:45-17:15	<b>Open discussions, Feedback and Concluding Session</b>	

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