

# Road Safety Reviewer Accreditation Course

## Objectives:

The course is designed to achieve the following:

- Train participants to undertake road safety reviews
- Provide participants with a good understanding of basic road safety engineering principles, and knowledge of the most recent developments
- Improve safety awareness of participants and their knowledge of the road safety situation in Singapore



## Course Structure:

The course will be presented through:

- Classroom lectures, audio/visual presentations and discussions;
- Group Exercises;
- Day and night site visits;
- Examinations.

Course participants who successfully complete the course will be accredited as LTA approved road safety reviewers.

## Who Should Attend:

This comprehensive course is suitable for Traffic Engineers, Transport Planners, Road Designers and Road Safety Consultants.

## Duration:

4 days

## Day    Chapter    Content

**1.**        **1.**        **Introduction**  
Introduction and Course Objectives.

**2.**        **Basic Principles of Road Safety**  
Road crashes – Why they happen, the implications, and road safety strategies for crash reduction and prevention. Introduce Road Safety Review as a proactive approach to eliminate hazards before crashes actually occur.

**3.**        **Human Factors in Road Traffic Engineering**

- ☑ Highlights importance of understanding and consideration of human characteristic in the design and operation of the road system
- ☑ Assist road user to travel on the roads safely and provide information to make correct decision

**2.**        **4.**        **Fundamentals of Road Safety Engineering**  
Introduce the first principle to design and build roads where the exposure of road users to hazards is as low as reasonably practicable.

# Road Safety Reviewer Accreditation Course

<u>Day</u>	<u>Chapter</u>	<u>Content</u>
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<b>2.</b>	<b>5.</b>	<b>Safe Road Design</b>
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Presents guidelines, international practices and research studies pertaining to the general aspects of road safety engineering. Topics discussed include design standards, cross section elements, vertical/horizontal alignment, sight distance, delineation, vulnerable road users and intersection design.

<b>3.</b>	<b>6.</b>	<b>Roadside Hazard Management</b>
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- ☑ Introduces second principle of road safety engineering – to design and build roads where the severity of the crashes that do occur is reduced to a level as low as reasonably practicable
- ☑ Roadside hazard management principles and how different safety devices can be employed to make the road side as forgiving as possible

<b>7.</b>	<b>Introduction to Road Safety Review</b>
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- ☑ Fundamentals of road safety review including the objectives, benefits and requirements
- ☑ How the safety review is undertaken

<b>8.</b>	<b>Risk Assessment of Road Projects</b>
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Discusses the method of risk assessment for road safety deficiencies described in LTA Procedure Manual for PSR for Road Projects.

<b>4.</b>	<b>9.</b>	<b>Hazard Identification</b>
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Practical examples of safety review findings will be presented.

<b>10.</b>	<b>Practical Coursework on Road Safety Review</b>
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- ☑ Groups will be asked to undertake hands-on safety reviews on the detailed design stages and pre-opening stages of a completed road project under the guidance of an experienced road safety reviewer. Site visits to the actual sites during day and nights would be undertaken
- ☑ Groups would be asked to submit a safety review report at the end of the course which would be assessed and contribute to the final accreditation as a safety reviewer

<b>11.</b>	<b>Written Examination</b>
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Participants would undertake a written examination to demonstrate their understanding of the principles and materials taught in the course. This would also be the assessment leading to the accreditation as a road safety reviewer.

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For more information and reservation, please email us at [ltaacademy@lta.gov.sg](mailto:ltaacademy@lta.gov.sg)  
or visit our website at : [www.LTAacademy.gov.sg](http://www.LTAacademy.gov.sg)

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