

# Safe System Engineering Workshop

This is to Certify

***Swaraj Baral***

Has successfully participated in a workshop of instruction designed to provide the knowledge and skills necessary to be a team member for:

**Crash Reduction Study and Road Safety Audit**



James Hughes  
Lead advisor safety  
(Roads and roadsides)  
Date: 25 October 2019

*A detailed list of skills and knowledge appears on the back of this certificate*

The following lectures were attended:

Introduction to the safe system	✓	Infrastructure – Skid Resistance and Road Safety	✓
Translating the Safe System into Design	✓	Infrastructure – Rural Road Design	✓
Risk Profiling and Road Safety Tools	✓	Infrastructure – Roadside Safety	✓
A Safe System Through Network Planning	✓	Infrastructure – Road Safety Barriers System	✓
Safe Speed – The Safe System in Practice	✓	Intelligent Transport Systems for Safety	✓
Human factors and road safety	✓	Infrastructure – Delineation Markings and Signs	✓
Safety and Participation – Including all People	✓	Retroreflectivity for Road Signs	✓
Specific Road User Groups – Pedestrians	✓	Safe System Assessment and Road Safety Auditing	✓
Specific Road User Groups – Cyclists and Micromobility	✓		
Road Design – Urban Roads and Streets	✓		
Infrastructure – Safety at Intersections	✓		
Crash Reduction Study Procedures	✓	Practical exercises listed below were successfully completed:	
Infrastructure – Roundabouts	✓	• Crash reduction study	✓
Motorcycles in a Safe System	✓	• Road safety audit	✓
Intersections – Traffic Signal Safety	✓		