

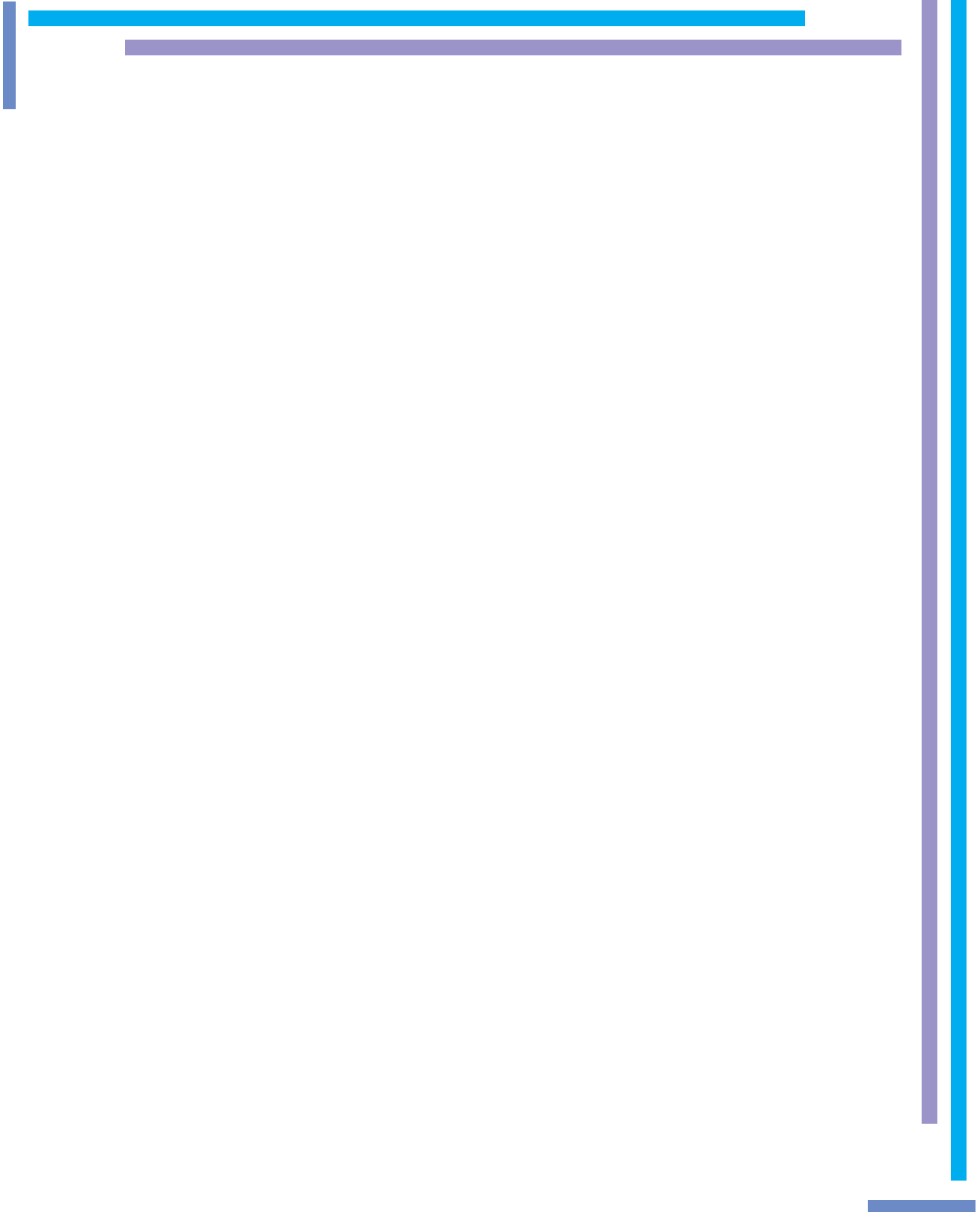
REPORT OF
CERTIFICATION COURSES
FOR
ROAD SAFETY AUDITORS
NEW DELHI, INDIA

APRIL 2012

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*Report of Certification Courses for
Road Safety Auditors in April 2012,
New Delhi, India*



REPORT OF CERTIFICATION COURSE FOR ROAD SAFETY AUDITORS IN APRIL 2012 NEW DELHI, INDIA

IRF India Chapter in Association with Australian Road Research Board (ARRB) and Central Road Research Institute (CRRI) has taken initiative for delivering Certification Courses for “Road Safety Auditors”. With the aim of building capacity for road safety audit works in the country (i.e. India) by creating trained experts for road safety audit works and to certify them for international level recognition, two courses were organized successfully back to back in last two weeks of April 2012. These training courses were organized in two consecutive weeks during 16th to 20th April and 23rd to 27th April 2012. The training has been imparted by both ARRB and Indian experts. The training courses had special requirements for entry qualifications, and then 90% attendance, passing of an evaluation test of the auditing knowledge and skills developed by the trainees, including preparation of report and making presentation of the practical audits. A Certificate has been issued to each trained auditor, who fulfilled all the requirements, by the ARRB, IRF (India Chapter) and CRRI jointly. These auditors will be carrying out the RSA in the country in coming time.

The trainees were selected based on educational background, past training and the experience. Those who have a degree in Civil Engineering or post-graduate degree or diploma in Traffic Engineering/Highway Engineering/Transportation Engineering etc or at least 10 years of experience in related work were eligible for the certification course. The **Annexure I** shows the application format filled by the candidates, which was used for selection of the candidates for the Certification Courses. Educational Institutions, Consultancy Organizations, Government Departments and Road/Highway Authorities in Centre and States, having staff with the requisite qualifications and experience, nominated officers for the training courses.

The course material was designed jointly by ARRB, IRF (India Chapter) and CRRI, and the course was structured for appropriate development of RSA skills in the participants. The course contents and the faculty who delivered the two courses are given in **Annexure II**. The two courses are attended by a total of 52 participants (21 participants in the first course and 31 participants in the second), and their list and contact details are given in **Annexure III**. These lists also include the names and contact details of faculty who have contributed in delivery of the two courses. The faculty / experts were:

Mr. John Hughes, ARRB Group Ltd.

Prof. P. K. Sikdar, IRF (India Chapter)

Mr. R. K. Bajpai, ICT Pvt. Ltd.

Mr. Jacob George, ICT Pvt. Ltd.

Dr. Nishi Mittal, CRRI

Dr. S. Velmurugan, CRRI

Dr. K. Ravinder, CRRI

The courses had exclusive components of practical audit works in groups guided by mentors, which provided real world audit experience to the participants. Through strict attendance and evaluation test 48 participants have been certified as auditors, while 3 participants have received certificate of participation as they did not meet the qualification and experience criteria for selection to the Auditors' Course, but wanted to attend anyway. The fee charged for the course was a subsidized by IRF (India Chapter).

The course was conducted with strict requirement of the attendance as 90% minimum and a pass in the final evaluation test. All the participants for the certification courses fulfilled the requirements at a level much above the requirements. The samples of the certificates issued to the participants of the two courses as certified auditors is shown in **Annexure IV**. The course material is given to the participants at the beginning of the course as a bound volume. In addition, they have been given a CD also with complete set of course materials, along with the Austroad RSA Checklists and the Checklist

of IRC Manual for Road Safety Audit. The get up of these course materials are shown in **Annexure V**.

At the end, the courses were also evaluated by the participants, and the report of evaluation is given separately for each course in **Annexure VI**, while the format used for evaluation is given in **Annexure VII**.

The group photographs of the participants and the faculty for the two training courses are given in **Annexure VIII**.

The conduct of the courses in class room lectures as well as site visits for actual audit works were captured in photographs as shown in **Annexure IX**.



Annexures



APPLICATION FORMAT (RSA CERTIFICATION COURSE: APRIL 2012)
(Enclose a brief 2 page CV with details of experiences)

Sl. No.	Particulars	To be Filled by Applicant	
1.	Name in CAPITAL LETTERS		
2.	Sponsoring Organization		
3.	Designation		
4.	Address & Telephone/ Email etc. for correspondence		
5.	Mobile No.		
6.	Course Applied for (please tick one)	Course I (16th - 20th April)	Course II (23rd - 27th April)

7. Educational Qualification(s) (from graduation onwards)

Sl. No.	Degree/Examination Passed	University/ Institution	Year of Passing	Class/ Grade

8. Employment Record

Sl. No.	Position Held	Period (From_To_)	Organization/ Department/Ministry

Signature of the Applicant

Signature of Sponsoring Authority with Seal

Certification Course for Road Safety Auditors

IRF (India Chapter) – ARRB - CRR I

Venue: Council Hall, Central Road Research Institute, New Delhi

Day – 1 (16th/23rd April 2012)

Time	Details of Topics	Venue/Speakers	Presentation Materials
08.30 Hrs	Registration	CRR I	
09.30-10.00	Welcome and Inauguration of the Course	CRR I Council Hall	
10.00-10.15	Tea/Coffee		
10.15-11.00	Road Safety in India – An Overview	Prof. P. K. Sikdar	1.1
11.00-11.30	Characteristics of Road Accidents in India	Dr. Nishi Mittal	1.2
11.30-11.45	Tea/Coffee		
11.45-12.15	Planning for Road Network, Land Use and Road Environment for Safety	Dr. K. Ravinder	1.3
12.15-12.45	Designing for Safety: Road Link Design	Prof. P. K. Sikdar	1.4
12.45-13.30	Designing for Road Safety: Junctions	Mr. Jacob George	1.5
13.30-14.15	Lunch		
14.15-14.45	Introduction to Road Safety Engineering	Mr. John Hughes	1.6
14.45-15.15	Human Factors Relating to Crashes	Mr. John Hughes	1.7
15.15-15.45	The Steps in Treatment of Crash Locations	Mr. John Hughes	1.8 A
15.45-16.00	Tea/Coffee		
16.00- 16.30	Diagnosing the Crash Problem	Mr. John Hughes	1.8 B
16.30-17.15	Crash Problems into Solutions & Accident Costing / Economic Appraisal	Mr. John Hughes	1.9 A
17.15-17.45	Writing the Crash Location Report	Mr. John Hughes	1.9B
17.45-18.00	Summary of Day-1 & Briefing for Day-2	Prof. P. K. Sikdar	
18.00 Hrs	Close of Day-1		

Day-2 (17th/24th April 2012)

Time	Details of Topics	Speakers	Presentation Materials
09.00-10.00	Road Safety Audit - An Introduction	Mr. John Hughes	2.1
10.00-10.30	How to Conduct Road Safety Audit	Mr. John Hughes	2.2
10.30-11.15	Design Stage Road Safety Audit	Mr. Jacob George	2.3
11.15-11.30	Tea/Coffee		
11.30-12.00	Road Safety Audits of Land Use Developments	Mr. John Hughes	2.4
12.00-12.30	Traffic Control Devices & Safety Needs of Different Road Users	Dr. Nishi Mittal	2.5
12.30-13.00	Construction Zone Safety and Pre Opening Audit	Mr. Jacob George	2.6
13.00-13.30	Road Safety Toolkit	Mr. John Hughes	2.7
13.30-14.15	Lunch		
14.15-15.30	Detailed Design Audit – In-office Audit – Audit of an Example Design	Mr. Hughes/Bajpai/George/ Ms. Mittal/Dr. Sikdar	DPR Drawings of a project
15.30-15.45	Tea/Coffee		
15.45-16.30	Detailed Design Audit – In-office Audit & Preparation of Report	Mr. Hughes/Bajpai/George/ Ms. Mittal/Dr. Sikdar	
16.30-17.45	Group Presentations on RSA of Design, 10 Minutes per Group	Mr. Hughes/Bajpai/George/ Ms. Mittal/Dr. Sikdar	
17.45-18.00	Summary of Day-2 & Briefing for Day-3	Prof. P. K. Sikdar	
18.00 Hrs	Close of Day-2		

Day – 3 (18th/25th April 2012)

Time	Details of Topics	Speakers	Presentation Materials
09.00-09.30	Street Lighting & Traffic Signals	Mr. R. K. Bajpai	3.1 A & 3.1B
09.30-10.00	Safety Issues for VRUs in India	Dr. Nishi Mittal	3.2 A
10.00-11.15	Pedestrians and people with disabilities & Road Safety Audit – Cyclists	Mr. John Hughes	3.2 B & 3.2C
11.15-11.30	Tea/Coffee		
11.30-12.15	Road Signs and Pavement Markings	Mr. Jacob George	3.3
12.15-12.45	iRAP Introduction	Mr. John Hughes	3.4
12.45-13.15	Safe System Approach	Mr. John Hughes	3.5
13.15-14.00	Lunch		
14.00-14.30	Speed Management & safety	Dr. S. Velmurugan	3.6
14.30-15.00	Utilizing Speed Limits & Speed Zone Signing	Mr. John Hughes	3.7A & 3.7B
15.00-15.30	Infrastructure required to support speed feedback and enforcement	Dr. K. Ravinder	3.8
15.30-15.45	Tea/Coffee		
15.45-16.30	Hazard Management with Respect to Safety	Dr. S. Velmurugan	3.9
16.30-17.00	Organizational Commitment Towards Road Safety Audit	Dr. S. Velmurugan	3.10
17.00-17.45	Road Safety Audit Checklist	Prof. P. K. Sikdar	3.11
17.45-18.00	Summary of Day-3 & Briefing for Day-4	Prof. P. K. Sikdar	
18.00 Hrs	Close of Day-3		

Day – 4 (19th/26th April 2012)

Time	Details of Topics	Coordinators	Site Visits
09.00-11.30	Existing Roads Audit –Site Visit (An Example Stretch of Road)	All faculty	Site: Ashram-Badarpur (NH-2)
11.30-11.45	Tea/Coffee		
11.45-13.15	Construction Zone Audit – Site Visit	All faculty	Site to be selected
13.15-14.00	Lunch		
Cont. 4th day 14.00-14.45	Audit of Grade Separated Intersection (Site Visit)	All faculty	Site: Okhala Interchange

Time	Details of Topics	Coordinators	Site Visits
14.45-15.30	Preparation of the Audit Reports	All faculty	
15.30-15.45	Tea/Coffee		
15.45-17.45	Preparation of the Audit Reports	All faculty	
17.45-18.00	Summary of Day-4 & Briefing for Day-5	Prof. P. K. Sikdar	
18.00-20.00	Night-time Audit (Site Visits)	All faculty	Site: Ashram-Badarpur (NH-2)
20.00 Hrs	Close of Day-4		

Day – 5 (20th/27th April 2012)

Time	Details of Topics	Speakers/Venue	Presentation Materials
09.00-09.30	Risk Assessment & Ranking audit recommendations	Mr. John Hughes	5.1
09.30-10.00	Solutions and Percentage Effectiveness & Corrective Action Reports	Mr. John Hughes	5.2 A & 5.2 B
10.00-10.30	Preparation of the Audit Reports	All faculty	
10.30-11.30	Evaluation Test	Mr. John Hughes / Prof. P.K.Sikdar	
11.30-11.45	Tea/Coffee		
11.45-13.15	Presentation & Discussion of RSA Report by Groups: 30 Minutes for Each Group	All faculty	
13.15-14.00	Lunch		
14.00-15.00	Presentation & Discussion of RSA Report by Groups; 30 Minutes for Each Group	All faculty	
15.00-15.30	Course Evaluation	Mr. John Hughes / Prof. P.K.Sikdar	
15.30-15.45	Tea/Coffee		
15.45-16.00	Group Photograph		
16.00-16.45	Closing Function & Certificate Distribution	CRR I Council Hall	
16.45- 17.00	Closing Remarks & Dispersal		

Note: All Example Audits and Preparation of Report shall be in Groups of 4-5 participants of the Course and there shall be five Groups out of 30 participants. There will be one mentor assigned to each Group to guide and assist throughout the Course.

CERTIFICATION COURSE FOR ROAD SAFETY AUDITORS

**IRF (INDIA), ARRB & CRRI
(16- 20 April 2012)**

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**IRF, ARRB & CRRI CERTIFICATION COURSE FOR ROAD SAFETY AUDITORS
(23 - 27 April 2012)**

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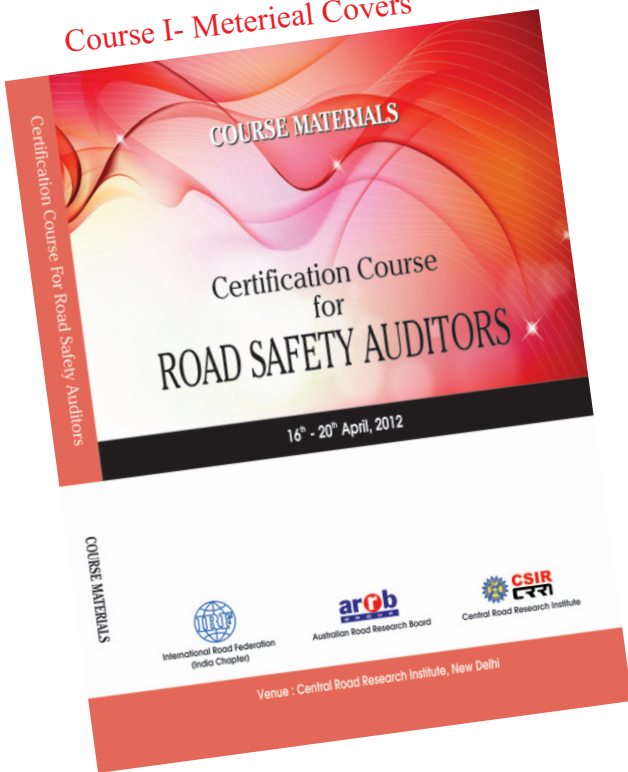
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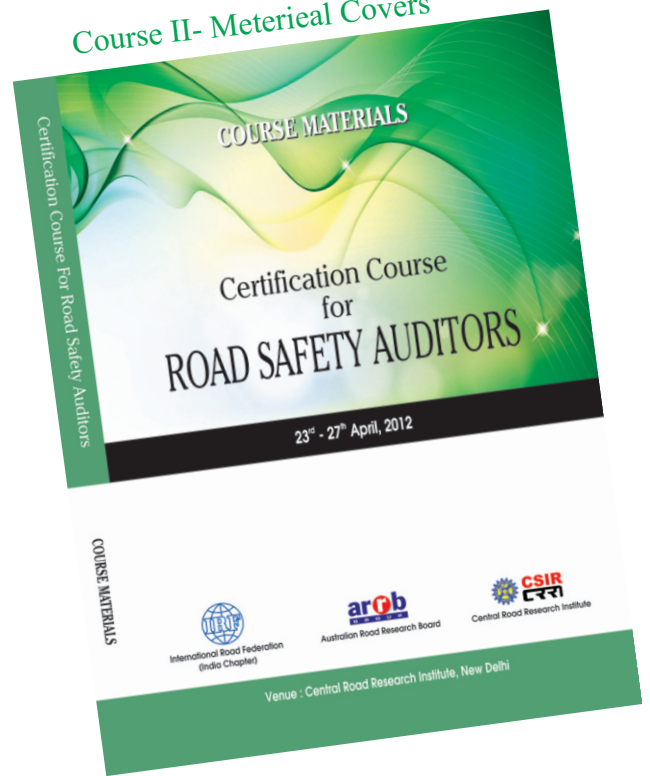
Course II- Certificate



Course I- Meteriel Covers



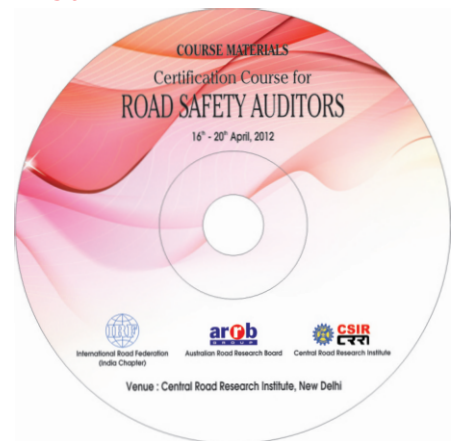
Course II- Meteriel Covers



Course Meteriel CD Covers



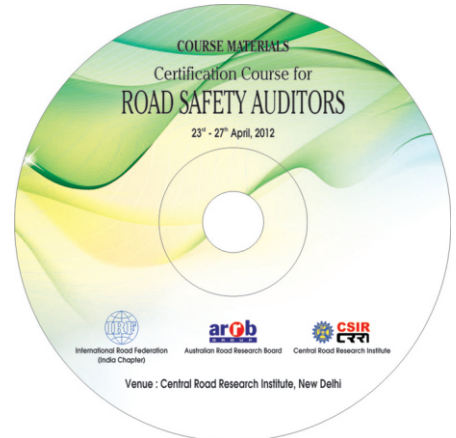
Course Meteriel CD Stickers



Course Meteriel CD Covers



Course Meteriel CD Stickers



RSA Course Evaluation

The training course was evaluated at the end of program. All the trainees were requested to fill in the Course Evaluation form given in **Annexure VII**. The responses given by all the trainees were evaluated in quantitative and qualitative terms and these are presented below.

RSA Course Evaluation – Course I

PART – I: Quantitative Evaluation

1. The course provided useful information/knowledge
80% strongly agree, 20% agree
2. The content of course was relevant and useful
70% strongly agree, 25% agree, 5% neutral
3. The course structure was apt
25% strongly agree, 65% agree, 10% neutral
4. The course responded to the expectations
50% strongly agree, 40% agree, 10% neutral
5. The quality of the presentations was high
45% strongly agree, 55% agree
6. The design audit exercise was helpful
45% strongly agree, 50% agree, 5% neutral
7. The audit site visits and the report preparation exercise was useful
65% strongly agree, 35% agree
8. Gained confidence to undertake road safety design audit independently
75% strongly agree, 25% agree
9. Gained confidence to undertake construction zone safety audit independently
65% strongly agree, 30% agree, 5% neutral
10. Gained confidence to undertake existing road safety audit independently
60% strongly agree, 25% agree, 15% neutral
11. Time for interaction was adequate
35% agree/strongly agree, 45% disagree and 20% were neutral

PART – II : Qualitative Evaluation

Comments regarding the program of the course (subjects that have been discussed or should have been, presenters, etc...)

- The Course was very rigorous. It could have had field visits for 2 days comprising exhaustive primary/secondary analyses.
- The whole five day program was so knowledgeable that it has changed our vision and approach towards Road Safety.
- Number of presentations could be more. The duration of few presentations like technical detailing of signage could have been reduced.
- The program was meticulously designed. Presenters have been carefully selected and they explained the topics in depth.
- Subjects were discussed well. More site visits are required.
- Very suitable for Indian conditions where huge improvement of infrastructure in road sector is being done.

Comments regarding the organization of the course

- Night time audit is a novel idea; it could be enhanced more for fruitful results.
- Course was organized systematically.
- Such program should be conducted more often to provide nation with better qualified road auditors.
- Excellent organization clubbed with adjoining site visits availed maximum time efficiency and interest.
- Organized well, but the schedule was very hectic.

What do you consider as the greatest benefit you gained in attending this course?

- Enhanced perception of the safety concern in road safety audits.
- Will be able to do road safety audit independently.
- Gained confidence for introducing all road safety aspects more precisely in projects under jurisdiction

Suggestions for improvement in the RSA courses to be conducted in future

- More time can be devoted for site visit.
- Time may be extended for incorporating more comprehensive interactive sessions and site visits
- Length of the course may be increased and some more classes may be included.

RSA Course Evaluation – Course II

PART – I: Quantitative Evaluation

1. The course provided useful information / knowledge
87% strongly agree, 13% agree
2. The content of course was relevant and useful
67% strongly agree, 33% agree
3. The course structure was apt
47% strongly agree, 37% agree, 16% neutral
4. The course responded to the expectations
53% strongly agree, 40% agree and 7% neutral
5. The quality of the presentations was high
53% strongly agree, 37% agree and 10% neutral
6. The design audit exercise was helpful
54% strongly agree, 43% agree and 3% neutral
7. The audit site visits and the report preparation exercise was useful
73% strongly agree, 23% agree and 4% neutral
8. Gained confidence to undertake road safety design audit independently
64% strongly agree, 33% agree and 3% neutral
9. Gained confidence to undertake construction zone safety audit independently
54% strongly agree, 43% agree and 3% neutral
10. Gained confidence to undertake existing safety audit independently
47% strongly agree, 47% agree and 6% neutral
11. Time for interaction was adequate
47% strongly agree, 50% agree and 3% were disagree

PART – II: Qualitative Evaluation

Comments regarding the program of the course (subjects that have been discussed or should have been, presenters, etc...)

- The Program of this course is prepared very carefully so that it gives maximum output to the aspirants.
- Course duration needs to be extended by one day atleast with same course contents
- This program gives me the right idea about safety and the importance of life of the people using roads.
- Content of the course still have room to cover more exercise towards crash investigation by keeping this course 7 days instead of 5 days.
- This program should make compulsory for all organization of Road & Infrastructure.

Comments regarding the organization of the course

- Well organized & structured course. Course material is also updated.
- The faculty members chosen by the organization are experts in their field

What do you consider as the greatest benefit you gained in attending this course?

- Gained confidence to conduct Road Safety audits.
- Benefitted by fundamental understanding of the Road Safety and its implementation in the field

Suggestions for improvement in the RSA courses to be conducted in future

- The RSA course should be at least one week or more so that more practical coverage should be there.
- Subjects regarding traffic signals and lane marking techniques could be added in future.
- Such course should be conducted in state capitals. “Human Factor” may be dealt bit extensively.

RSA CERTIFICATION COURSE- COURSE EVALUATION FORM

Please indicate the level of agreement and most accurately reflects your opinion of the course:

(Scale: 5= Strongly agree, 4= Agree, 3= Neutral, 2=Disagree, 1=Strongly disagree)

The course provided useful information/knowledge.	5	4	3	2	1
The content of the course was relevant and useful.	5	4	3	2	1
The course structure was apt.	5	4	3	2	1
The course responded to my expectations	5	4	3	2	1
The quality of the presentations was high.	5	4	3	2	1
The quality of the design audit exercise was helpful	5	4	3	2	1
The audit site visits and the report preparation exercise was useful	5	4	3	2	1
Gained confidence to undertake road safety design audit independently	5	4	3	2	1
Gained confidence to undertake construction zone safety audit independently	5	4	3	2	1
Gained confidence to undertake existing safety audit independently	5	4	3	2	1
Time for interaction was adequate.	5	4	3	2	1

What are your comments regarding the program of this course (subjects that have been discussed or should have been, presenters, etc...)?

What are your comments regarding the organization of this course?

What do you consider as the greatest benefit you gained in attending this course?

Any suggestion you wish to make regarding RSA courses for improvement of future events?

Thank you for your feedback. Your comments and suggestions will help us to improve future courses.

Name:

Address:

Contact no.:



Photographs from the Course I



Course Inauguration:
Course I - Inaugurated by Director, CRRI



Speaking at the Inauguration
Mr. N. K. Sinha, IRF Chairman (India Chapter)



Mr. John Hughes, ARRB is Speaking at the Inauguration



Course Participants



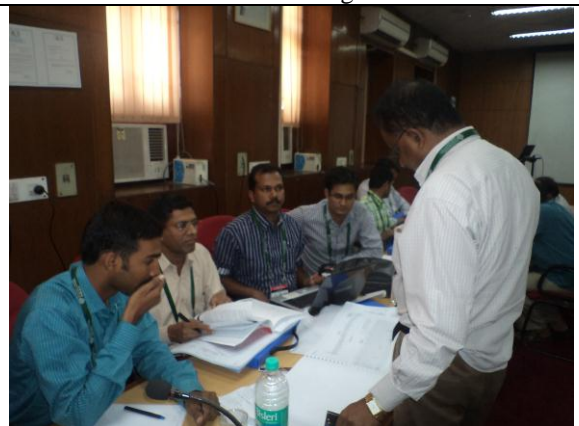
Course Participants



Lecture in Progress



Design Audit being Done by Participants



Design Audit being Supervised



Existing Road Audit in Progress



Construction Zone Audit in Progress

Night time Audit in Progress



Preparation of Group Report

Audit Report Being Presented



Tea / Coffee Break



Lunch During Course Days



Lunch During Course Days



Concluding Session



Evaluation Test in Progress



Certificate being Presented



Certificate being Presented



Photographs from the Course II



Course II Inauguration
by Mr. N. K. Sinha, IRF Chairman (India Chapter)



Prof. P. K. Sikdar
Speaking in Inauguration



Mr. John Hughes, ARRB is Speaking at the Inauguration



Course II Participants



Lecture in Progress



Road Audit in Progress Starting



Preparation of Audit Report



Presentation of Audit Report



Tea / Coffee Break



Lunch During Course Days

Evaluation Test in Progress



Evaluation Test in Progress



Concluding Session



Concluding Session



Distribution of Certificates