

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

FEBRUARY 2010



global Transport
Knowledge Partnership



International Road Federation
(India Chapter)



Australian Road
Research Board

Table of Contents

Description	Page Nos
Report of Certification Course for Road Safety Auditors in February 2010, New Delhi, India	1 of 2
Annexure I : Application Format	1 of 1
Annexure II : Course Contents and the Faculty	1 of 4
Annexure III : List of Participants	1 of 5
Annexure IV : Sample of the Certificates	1 of 1
Annexure V : Cover Page of Course Materials distributed	1 of 1
Annexure VI : Report of Course Evaluation	1 of 4
Annexure VII : Format use for Course Evaluation	1 of 1
Annexure VIII : Group Photographs of Courses	1 of 1
Annexure IX : Photographs from the Courses: Classroom, Lectures and Field Work	1 of 6

*Report of Certification Course for
Road Safety Auditors in Feb. 2010,
New Delhi, India*

REPORT OF CERTIFICATION COURSE FOR ROAD SAFETY AUDITORS IN FEBRUARY 2010 NEW DELHI, INDIA

IRF India Chapter in Association with Australian Road Research Board (ARRB) 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 first two weeks of February 2010. These training courses were organized in two consecutive weeks during 1st to 5th February and 8th to 12th February 2010. The training has been imparted by both ARRB and Indian experts. The training courses had special requirement for entry qualifications, and then 90% attendance and passing of an evaluation test of the auditing skills developed by the trainees. A Certificate has been issued to each trained auditor, who fulfilled all the special requirements, by the ARRB and IRF (India) 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 and IRF (India), 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 50 participants (18 participants in the first course and 32 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. Richard Jois, ARRB
- Prof. P. K. Sikdar, IRF (India)
- Mr. R. K. Bajpai, ICT Pvt. Ltd.
- Mr. Jacob George, ICT Pvt. Ltd.
- Dr. Nishi Mittal, CRRRI
- Dr. S. Velmurugan, CRRRI
- Dr. K. Ravinder, CRRRI

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 47 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 amount of Indian Rupees 35,000 per candidate.

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 with complete set of course materials. Further, they have been given the Austroad RSA Checklists and the Checklist of Draft IRC Manual for Road Safety Audit. These are shown in **Annexure V**. At the RSA Certification Course Report 2 of 2 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 courses have been supported by Ministry of Road Transport & Highways, Govt. of India, International Road Federation (India), and gTKP financially in addition to the course fee charged from the participants. 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 WITH CV (For RSA Certification Course)

Sl. No.	Particulars	To be Filled by Applicant
1	Name in CAPITAL LETTERS	
2	Sponsoring Organization	
3	Address in full	
	Office Address:	
	Residential Address:	
4	Contact telephones, etc: Office: Home: Mobile: Email:	
5	Educational Qualifications:	
	(a) Graduation Degree with Name of Institution/University/Year of passing/Grade, etc	
	(b) Post-graduation Degree/ Diploma with Name of Institution/University/Year of passing/Grade, etc	
6	Experiences in the field of Traffic & Transportation in last 10 years	
7	A statement of the applicant on the road safety problems in India and their substantive causes.	
Dated & Signature (Candidate)_____		Signature of Sponsor with Stamp_____

COURSE PROGRAMME OF THE RSA CERTIFICATION COURSE IRF (India) & ARRB Certification Course

Day – 1

Time	Details of Topics	Venue/Speakers
08.00 Hrs	Registration	CRRI
09.00-10.00	Welcome and Inauguration of the Course	CRRI Council Hall
10.00-10.45	Road Safety in India – An Overview	Prof. P. K. Sikdar
10.45-11.30	Characteristics of Road Accidents in India	Dr. Nishi Mittal
11.30-11.45	Tea/Coffee	
11.45-12.15	Planning for Network, Land Use and Road Environment for Safety	Dr. S. Velmurugan
12.15-12.45	Designing for Safety: Road Link Design	Prof. P. K. Sikdar
12.45-13.15	Designing for Road Safety: Junctions	Mr. Jacob George
13.15-14.00	Lunch	
14.00-14.30	Introduction to Road Safety Engineering and Crash Investigation	Mr. Richard Jois
14.30-15.00	Human Factors Relating to Crashes/Accidents	Mr. Richard Jois
15.00-15.30	Crash/Accident Investigation & Crash Data Analysis	Mr. Richard Jois
15.30-15.45	Tea/Coffee	
15.45-16.30	Crash Problems into Solutions & Crash Investigation Reporting	Mr. Richard Jois
16.30-17.00	Crash/Accident Costing	Mr. Richard Jois
17.00-17.45	Economic Appraisal	Mr. Richard Jois
17.45-18.00	Summary of Day-1 & Briefing for Day-2	Prof. P. K. Sikdar
18.00 Hrs	Close of Day-1	

COURSE PROGRAMME OF THE RSA CERTIFICATION COURSE IRF (India) & ARRB Certification Course

Day – 2

Time	Details of Topics	Speakers
09.00-09.45	Road Safety Auditing- An Introduction	Mr. Richard Jois
09.45-11.00	How to Conduct Road Safety Audit	Mr. Richard Jois
11.00-11.15	Tea/Coffee	
11.15-11.45	Design Stage Road Safety Audit	Mr. Jacob George
11.45-12.15	Road Safety Audits of Land Use Developments	Mr. R. K. Bajpai
12.15-12.45	Traffic Control Devices & Safety Needs of Different Road Users	Dr. Nishi Mittal
12.45-13.15	Road Safety Audit in Road Works & Pre Opening Safety Audit	Mr. Jacob George
13.15-14.15	Lunch	
14.15-15.30	Detailed Design Audit – In-office Audit – Audit of an Example Design	Mr. Jois/ Bajpai/ George / Ms. Mittal/ Dr.Sikdar
15.30-15.45	Tea/Coffee	
15.45-16.30	Detailed Design Audit – In-office Audit & Preparation of Report	Mr. Jois/Bajpai/ George/ Ms. Mittal/ Dr. Sikdar
16.30-17.45	Group Presentations on RSA of Design, 10 Minutes per Group	Mr. Jois/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	

COURSE PROGRAMME OF THE RSA CERTIFICATION COURSE IRF (India) & ARRB Certification Course

Day – 3

Time	Details of Topics	Speakers
09.00-09.45	Street Lighting & Traffic Signals	Mr. R. K. Bajpai
09.45-10.30	Safety Provisions for Pedestrians & Cyclists	Dr. Nishi Mittal
10.30-11.00	Design for Road Signs and Pavement Markings	Mr. Jacob George
11.00-11.15	Tea/Coffee	
11.15-11.45	Speed Management & safety	Dr. S. Velmurugan
11.45-12.15	Assessing speed limit and type of speed limits	Mr. Richard Jois
12.15-13.00	Speed zone signing	Mr. Richard Jois
13.00-14.00	Lunch	
14.00-15.00	Safe system approach	Mr. Richard Jois
15.00-15.30	Infrastructure to support safe speed feedback and enforcement	Dr. Nishi Mittal
15.30-15.45	Tea/Coffee	
15.45-16.30	Hazard Management	Mr. R. K. Bajpai
16.30-17.00	Organizational commitment & encouraging RSA	Dr. Nishi Mittal
17.00-17.30	Road Safety Audit Checklist	Prof. P. K. Sikdar
17.30-18.00	Summary of Day-3 & Briefing for Day-4	Prof. P. K. Sikdar
18.00 Hrs	Close of Day-3	

COURSE PROGRAMME OF THE RSA CERTIFICATION COURSE IRF (India) & ARRB Certification Course

Day – 4

Time	Details of Topics	Coordinators
09.00-10.30	Existing Roads Audit –Site Visit (An Example Stretch of Road)	All faculty
10.30-11.30	Construction Zone Audit – Site Visit	All faculty
11.00-11.15	Tea/Coffee	
11.30-13.00	Audit of Grade Separated Intersection (Site Visit)	All faculty
13.00-14.00	Lunch	
14.00-15.30	Preparation of the Audit Reports	All faculty
15.30-15.45	Tea/Coffee	
15.45-16.30	Preparation of the Audit Reports	All faculty
16.30-17.45	Free time	
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
20.00 Hrs	Close of Day-4	

COURSE PROGRAMME OF THE RSA CERTIFICATION COURSE IRF (India) & ARRB Certification Course

Day – 5

Time	Details of Topics	Speakers/Venue
09.00-09.30	Risk Management & Prioritization of audit recommendations	Mr. Richard Jois
09.30-10.00	Solutions and effectiveness & Corrective Action Report	Mr. Richard Jois
10.00-10.30	Presentation & Discussion of RSA Report by Groups: 30 Minutes for Each Group	All faculty
10.30-10.45	Tea/Coffee	
10.45-13.00	Presentation & Discussion of RSA Report by Groups; 30 Minutes for Each Group	All faculty
13.00-14.00	Lunch	
14.00-15.00	Presentation & Discussion of RSA Report by Groups; 30 Minutes for Each Group	All faculty
15.00-15.15	Tea/Coffee	
15.15-16.00	Course Evaluation	Mr. Richard Jois/ Prof. P. K. Sikdar
16.00-17.30	Closing Function & Certificate Presentation	CRRRI Council Hall
17.30-17.45	Closing Remarks & Dispersal	

Note: All Example Audits and Preparation of Report shall be in Groups of 6 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.



LIST OF PARTICIPANTS & FACULTY
IRF (INDIA) & ARRB CERTIFICATION COURSE
FOR ROAD SAFETY AUDITORS
(1-5 February 2010)

Sl. No.	Name	Designation and Organization	Mobile Number & Email Address
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LIST OF PARTICIPANTS & FACULTY
IRF (INDIA) & ARRB CERTIFICATION COURSE
FOR ROAD SAFETY AUDITORS
(8-12 February 2010)

Sl. No.	Name	Designation and Organization	Mobile Number & Email Address
1.	Dr. N. T. Rao	Director, International Relations, VIT University	9566656767, ntr@vit.ac.in
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FOR ROAD SAFETY AUDITORS
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Samples of Certificate

Course I - Certificate



Course II - Certificate



Materials Developed for Course

Course I - Material Cover



Course II - Material Cover



Course Material CD Cover



Course Material CD Sticker



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
50% strongly agree, 50% agree
2. The content of course was relevant and useful
50% strongly agree, 50% agree
3. The course structure was apt
30% strongly agree, 65% agree, 5% neutral
4. The course responded to the expectations
50% strongly agree, 50% agree
5. The quality of the presentations was high
35% strongly agree, 55% agree, 5% neutral
6. The design audit exercise was helpful
55% strongly agree, 45% agree
7. The audit site visits and the report preparation exercise was useful
70% strongly agree, 25% agree, 5% neutral
8. Gained confidence to undertake road safety design audit independently
50% strongly agree, 45% agree, 5% neutral
9. Gained confidence to undertake construction zone safety audit independently
50% strongly agree, 50% agree
10. Gained confidence to undertake pre-opening safety audit independently
60% strongly agree, 40% agree
11. Time for interaction was adequate
90% agree/strongly agree, 5% disagree and 5% 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 program and content of the course was appropriate, elaborate and of comprehensive manner.
- The statistical analysis of crash data could be dealt in more detail by showing an example analysis of some real crash data and a practice session similar to Design Stage Audit.
- The Design Stage Audit can be done effectively if soft copy of the drawings is provided.
- Some sample reports of real RSA conducted can be given to understand the audit procedure more effectively.

Comments regarding the organization of the course

- The training course is very well organized within stipulated time period.
- Some of the course material needs to be modified in order to match with Indian conditions.
- The course is organized in a manner to provide good balance of theory and practical knowledge (through site visit).
- There should be contribution of IRF in training along with ARRB.

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

- Learnt the systematic way of conducting Road Safety Audit.
- Gained full confidence for conducting Road Safety Audit.

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

- More time can be devoted for site visit.
- Give more importance to preparation of Audit Reports, as it is the end product of audit. The Audit Report itself can be presented to explain the findings and recommendations.
- Some of the presentations by faculty can be made more interesting.

RSA Course Evaluation – Course II

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
65% strongly agree, 35% agree
3. The course structure was apt
54% strongly agree, 32% agree, 7% neutral and 4% disagree
4. The course responded to the expectations
57% strongly agree, 39% agree and 4% neutral
5. The quality of the presentations was high
61% strongly agree, 32% agree and 7% neutral
6. The design audit exercise was helpful
50% strongly agree, 39% agree and 11% neutral
7. The audit site visits and the report preparation exercise was useful
68% strongly agree, 29% agree and 4% neutral
8. Gained confidence to undertake road safety design audit independently
57% strongly agree and 44% agree
9. Gained confidence to undertake construction zone safety audit independently
50% strongly agree, 43% agree and 7% neutral
10. Gained confidence to undertake pre opening safety audit independently
54% strongly agree, 36% agree and 11% neutral
11. Time for interaction was adequate
43% strongly agree, 32% agree, 21% neutral and 4% disagree

PART – II : Qualitative Evaluation

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

- The content of the training program is very relevant to the topic and it is very useful for the auditor.
- There was overlapping of contents in some of the presentations (very few) which can be removed and the saved time can be devoted to topics which requires more elaborative explanation and discussion.
- Duration of the course should be more to fit the content of training material. Some of the presenters were not very well prepared.

Comments regarding the organization of the course

- The organization of the training program is excellent and all the events are very well organized
- The training program is organized in a manner to give good balance between theory and practical sessions.

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

- Technique to use the checklist as a tool for conducting Road Safety Audit in a systematic manner
- The confidence to conduct Road Safety Audit at all stages are the greatest benefits of this course.

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

- A presentation on actual Road Safety Audit conducted by an expert or organization may be given for the benefit of the trainees
- The training course should be conducted in different parts of the country.



RSA CERTIFICATION COURSE- COURSE EVALUATION FORM

Please indicate the level of agreement and most accurately reflects your opinion of the course held at CRRRI during 1-5 & 8-12 February 2010.

(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 road 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:



Photographs

GROUP PHOTOGRAPHS



Photographs from the Course I



Course Inauguration:
Course I - Inaugurated by Director, CRR



Speaking at the Inauguration
Mr. N.K. Sinha, IRF Ambassador



Mr. Richard Jois, ARRB is Speaking at the Inauguration



Course Participants



Lecture in Progress



Design Audit in Progress



Design Audit being Done by Participants



Design Audit being Supervised



Lecture in Progress



Audit of Existing Road (at site)



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



Tea / Coffee Break



Lunch During Course Days



Course Dinner



Certificate being Presented

Photographs from the Course II



Course II Inauguration by Mr. N.K. Sinha, IRF Ambassador



Prof. P.K. Sikdar Speaking at Inauguration



Mr. N.K. Sinha Speaking at Inauguration



Course II Inauguration: Mr. Richard Jois, ARRB is Speaking



Course II Participants



Lecture in Progress





Preparation of Audit Report



Presentation of Audit Report

Tea / Coffee Break



Tea / Coffee Break



Tea / Coffee Break

Evaluation Test in Progress



Evaluation Test in Progress



Concluding Session



Distribution of Certificates