Session 2.3 Project Inception & The Audit Team

Conducting Road Safety Audits & Appraisals

Presented by: RTS & AGTT

January 2022

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1. Commissioning the Audit
2. Select and approve audit team
3. Audit Brief
4. Commencement Meeting

PROJECT INCEPTION & THE AUDIT TEAM

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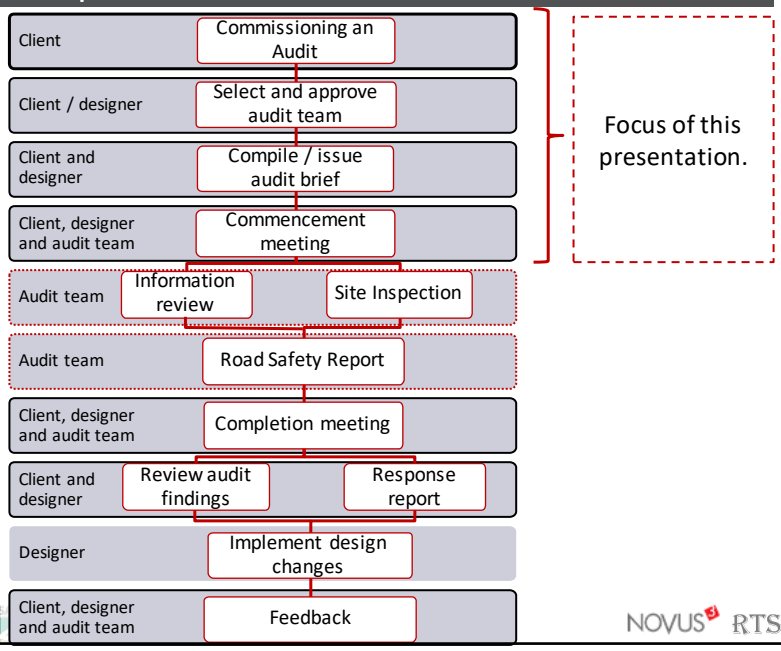
Focus of this presentation



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COMMISSIONING AN AUDIT

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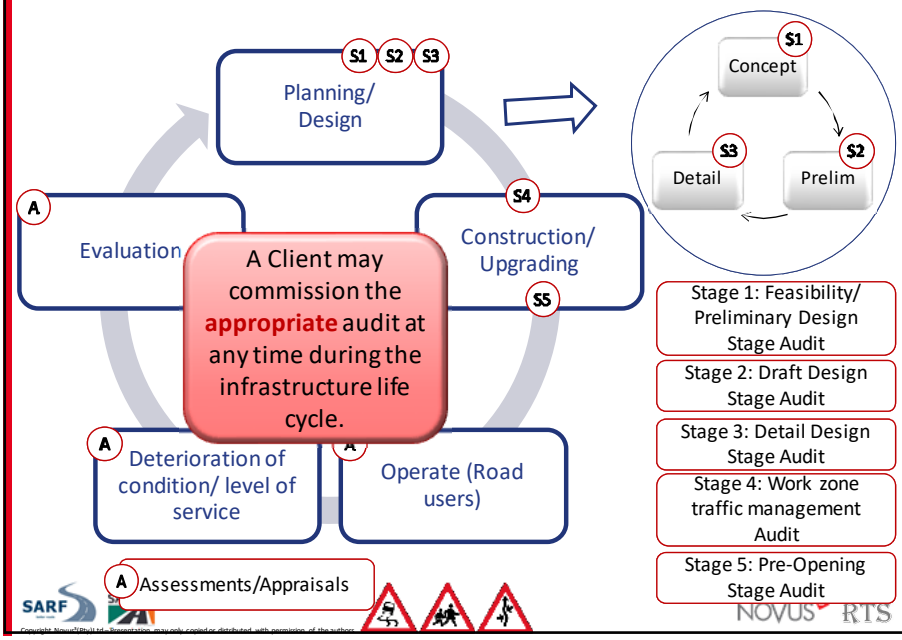
Road Safety Audit Stages - Commissioning an Audit



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SELECT AND APPROVE AUDIT TEAM

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Select and approve the audit team

Select a team which

- Is independent of the design team
- Has proper skills
- Has knowledge and experience appropriate for a particular project.

The RTMC recommends that: "The Team should consist of **accredited** Road Safety Auditors with at least one team member with **expert** knowledge and experience in **road safety engineering**."

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Compiling the Audit Team

What are proper skills?

Traffic flow and traffic operations

Based on excellent theoretical knowledge and understanding.

- HCM 2010 – Highway Capacity Manual
- TMH16 - Volume 1: SA Traffic Impact and Site Traffic Assessment Manual
- TMH16 - Volume 2: SA Traffic Impact and Site Traffic Standards and Requirements Manual
- TRH 26 - SA Road Classification and Access Management Manual

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Compiling the Audit Team

What are proper skills?

Road safety principles

Based on excellent theoretical knowledge and understanding.

- RTMC – SA Road Safety Audit Manual (2012)
- Cost of Crashes in SA (RTMC/CSIR)(2016)
- SANS 3000-2-2-1:2012 – Railway safety management

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What are proper skills?

Traffic calming, speed management

Based on excellent theoretical knowledge and understanding.

Design and implementation of speed humps (DoT, 1997 – CR-97/038)

Design guidelines for mini roundabouts (DoT, 1997 – CR-97/039)

National Guidelines for Traffic Calming (DoT, 1997 – CR-96/036.1)

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Compiling the Audit Team

What are proper skills?

Public transport, NMT & Heavy vehicles

Based on excellent theoretical knowledge and understanding.

Draft National Non-Motorised Transport Policy

NMT Facility Guidelines, 2014

The BRT Standard 2013

TRH 11 - Dimensional and Mass Limitations and other Requirements for Abnormal Load Vehicles (2009)

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What are proper skills?

Road Signs and Traffic Signals Design

Based on excellent theoretical knowledge and understanding.

SADC Road Traffic Sign Manual – Volume 1 Uniform Traffic Control Devices (2012)

SADC Road Traffic Sign Manual – Volume 3 Traffic Signal Design (2012)

NB – legal liability – requires expert input.

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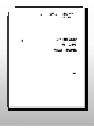
What are proper skills?

Geometric Design

Based on excellent theoretical knowledge and understanding.

SANRAL – Geometric Design Guidelines



TRH17 Geometric Design of Rural Roads

UTG1 Guidelines for the Geometric Design of Urban Arterial Roads

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What are proper skills?

Geometric Design

Based on excellent theoretical knowledge and understanding.

UTG5 Geometric Design of urban Collector Roads

UTG7 Geometric Design of Urban Local Residential Streets

UTG10 Guidelines for the Geometric Design of Commercial and Industrial Local Streets

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What are proper skills?

Depends on the project phase an complexity.

- Stage 1: Feasibility/ Preliminary Design Stage Audit
- Stage 2: Draft Design Stage Audit
- Stage 3: Detail Design Stage Audit
- Stage 4: Work zone traffic management Audit
- Stage 5: Pre-Opening Stage Audit
- Assessments/ Appraisals

Appropriate experience

- Network planning
- Intersection design
- Public transport
- Lighting
- Road signs
- Work zone management
- Traffic operations
- Crash investigations
- Universal access
- Law enforcement
- Others?

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Compiling the Audit Team

PROJECT INCEPTION & THE AUDIT TEAM

Team composition

At least three people

Audit Team Leader	Audit Team Member	Audit team Observer
5 days CI or RSE training	5 days CI or RSE training	5 days CI or RSE training
RSA course > 4 days	RSA course > 4 days	RSA course > 4 days
5 years relevant experience	3 years relevant experience	One year relevant experience
3 years CI or RSE experience	2 years CI or RSE experience	
5 RSAs in 2 years (3 design projects)	3 RSAs in 2 years (3 design projects)	
2 days CPD	2 days CPD	

Prerogative of Client to pick Auditor (Team) based on CV.

CI = Crash Investigation
RSE = Road Safety Engineering

AUDIT BRIEF

Audit brief

Audit brief

Provide the auditor with all the information that is necessary to conduct an adequate and effective Road Safety Audit of the project.

- Prepared by the Designer
- Include relevant project information, reports and drawings
- In a usable format
- Issued by client

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COMMENCEMENT MEETING

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Commencement meeting

Commencement meeting

To ensure that the design team understands the audit process; provide additional info; identify key issues, constraints and issues requiring special consideration.

- Review the scope and objectives
- Delegate responsibilities
- Agree on schedule for the completion
- Set up lines of communication
- Communicate matters of importance
- Establish the format of the RSA report

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END OF LECTURE

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