





SESSION 2.3 PROJECT INCEPTION & THE AUDIT TEAM

CONDUCTING ROAD SAFETY AUDITS & APPRAISALS


PRESENTED BY: RTS & AGTTC

6 – 7 June 2023



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1



CONTENT

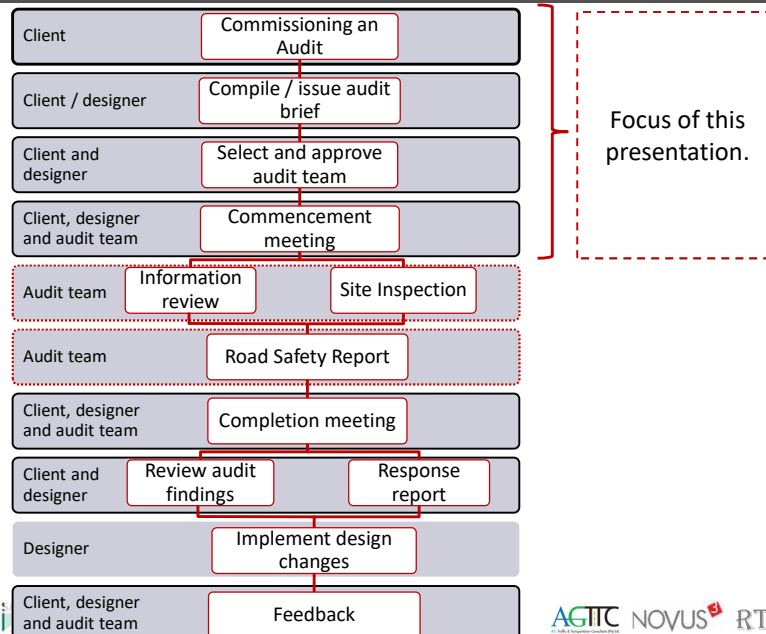
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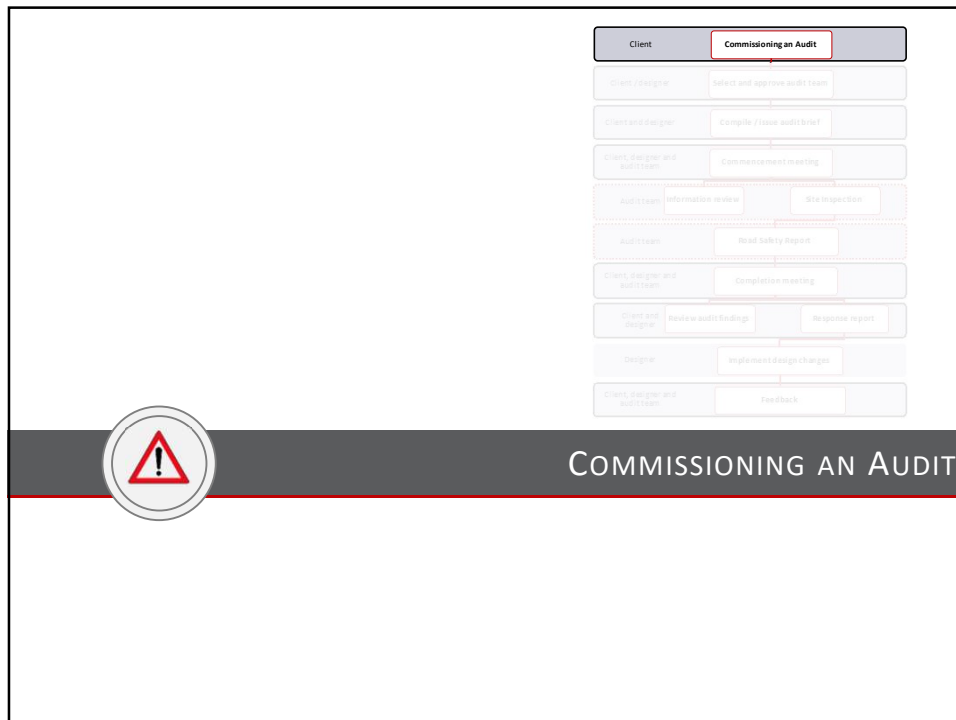
Content

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

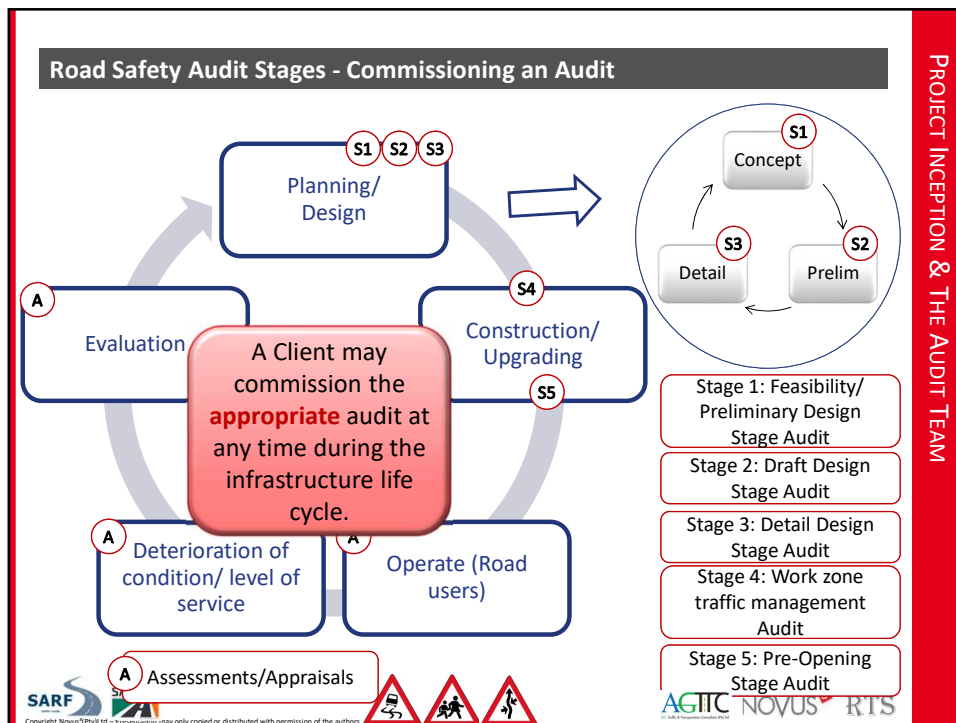


Focus of this presentation

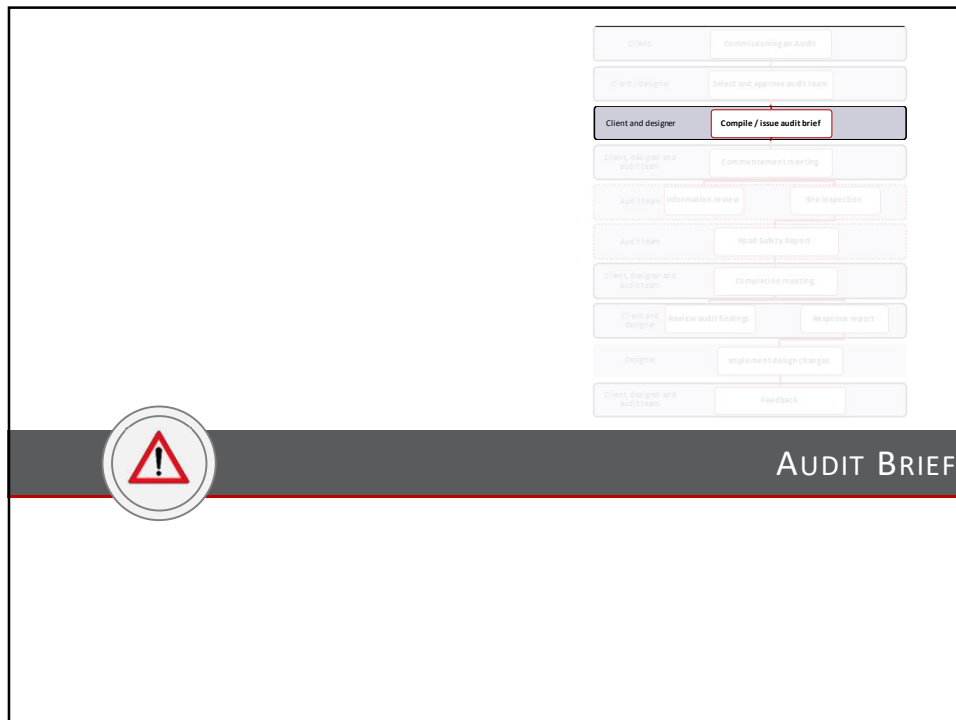




5



6



7

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

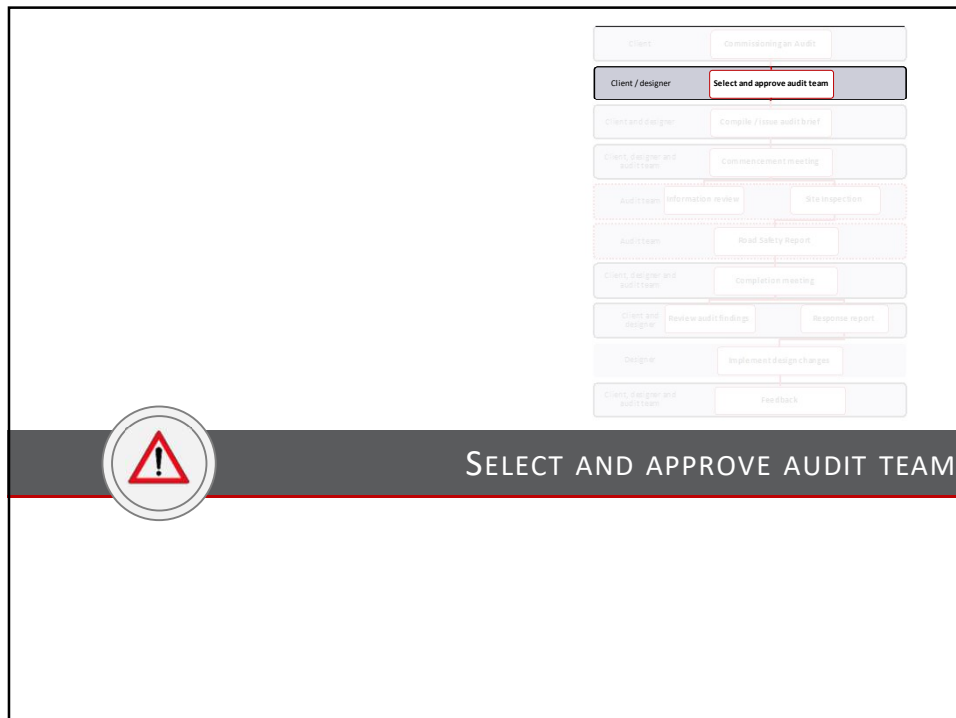
In a usable format

Issued by client

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8



9

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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10

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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11

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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12

Compiling the Audit Team


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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13

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



Guidelines for Pedestrian and Public Transport Facilities on National Roads, 2018








The BRT Standard 2013






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

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14


Compiling the Audit Team

What are proper skills?

Road Signs and Traffic Signals Design



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.




Based on
excellent
theoretical
knowledge and
understanding.

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15


Compiling the Audit Team

What are proper skills?


Geometric Design



SANRAL – Geometric Design Guidelines





TRH17 Geometric Design of Rural Roads






UTG1 Guidelines for the Geometric Design
of Urban Arterial Roads




Based on
excellent
theoretical
knowledge and
understanding.

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16

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What are proper skills?

Geometric Design

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

Based on excellent theoretical knowledge and understanding.

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17

Compiling the Audit Team

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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18

Compiling the Audit Team

Team composition

At least three people

The Service Provider's Road Safety Audit Team Leader shall be permanently employed staff member of the Service Provider; other key persons may be subcontracted.

The minimum requirements of the Road Safety Audit Team Leader:

- must be a Registered Professional Engineer or Professional Engineering Technologist with the Engineering Council of South Africa (ECSA), or international body recognized by the Client,
- Must have at least 10 years of experience post-graduation in Road Safety and/or Traffic and Transportation Engineering and/or Geometric Design,
- Has successfully completed a recognized Road Safety Audit course to the equivalent of at least 5 CPD points,
- Has successfully completed recognized Road Safety courses to the equivalent total of 2 CPD points within the last five (5) years, and
- Has undertaken at least 2 formal Road Safety Audits within a period of three (3) years as the Audit Team Leader or Audit Team member.



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Compiling the Audit Team

Team composition

At least two Team Members

The minimum requirements of the Road Safety Audit Team Member:

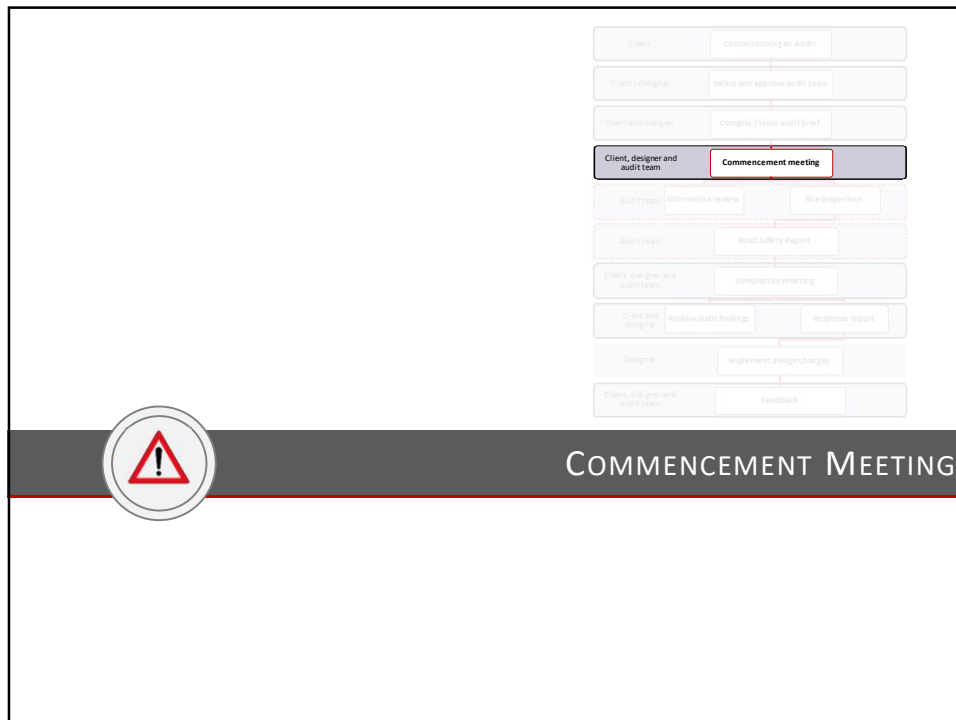
- Diploma in technology or a Degree in Engineering or equivalent recognised qualification;
- At least 3 years of experience in Traffic and Transportation Engineering and/or Geometric Design and/or Road Safety Audits/Construction.
- Has successfully completed a recognised Road Safety Audit Course to the equivalent of at least 5 CPD points.

It is compulsory for the Service Provider to engage one additional Road Safety Audit team member from QSE/EME companies/firms for capacity building in order to achieve the transformation objectives of the Client.



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21

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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22



END OF LECTURE