

Auditor Accreditation Experience and Knowledge Requirements Guidance:

How do I demonstrate crash investigation or road safety engineering experience?

Firstly, you need to understand the definitions for 'Crash investigation' and 'Road safety engineering'.

Crash investigation means an examination of crashes to identify patterns and common trends that may have contributed to crash causation or crash severity. This can include the detailed investigation of a single crash.

Road safety engineering means the design and implementation of physical changes to the road network intended to reduce the number and severity of crashes involving road users, drawing on the results of crash investigations.

Austrroads Guide to Road Safety Part 8: Treatment of Crash Locations provides a further explanation of road safety engineering skills:

- sound knowledge in traffic engineering and road design practice;
- an appreciation of road user behaviour and the contribution it makes to road crashes;
- competency in crash investigation (i.e. crash data analysis, and identification of crash causation and severity factors), and countermeasure development (i.e. identification of targeted cost-effective remedial treatments); and
- competency in monitoring and evaluation methods.

Examples of crash investigation or road safety engineering experience for road safety audit accreditation can include:

- Involvement in the preparation of Blackspot submissions where you examine crashes to identify patterns and common trends that may have contributed to crash causation or crash severity, and involvement in the identification of targeted cost-effective remedial treatments.
- The development of changes to the road network where you examine crashes to identify patterns and common trends that may have contributed to crash causation or crash severity, and then identify targeted cost-effective remedial treatments.
- Detailed investigations of crashes or a single crash (i.e. fatal crash investigation) where crash causation and crash severity is considered and remedial treatments are recommended.
- The investigation of crashes at locations on the road network where crash causation and crash severity is considered to identify potential remedial treatments in response to customer or client enquiries.

Why is it important that a road safety auditor can demonstrate crash investigation or road safety engineering experience?

Road safety auditors need to have an understanding of where crashes occur and the road elements that can contribute to an increased risk of crash causation and severity to be effective at identifying potential crash risk, crash likelihood and exposure related to existing roads and proposed changes to the road network, and have an understanding of effective targeted remedial treatments.

How is your crash investigation or road safety engineering experience demonstrated in your application for road safety auditor accreditation?

Your crash investigation or road safety engineering experience should be demonstrated in your **targeted** CV or resume and listed and verified in the completion of the auditor application form.

How do I demonstrate knowledge of current practice in road design or traffic engineering principles?

Firstly, it is important to understand that you are required to demonstrate 'knowledge of' and **not** 'experience in' road design or traffic management principles.

You are **not** required to be a practising road designer or engineer to demonstrate knowledge of road design or traffic management principles for road safety auditor accreditation, although experience in road design and traffic management when combined with road safety engineering experience can be beneficial when conducting a road safety audit.

Applicants need to demonstrate that they have knowledge of Austroads guidelines, Australian Standards and Main Roads guidelines (if applicable) which provide guidance and standards on various road design and traffic management principles that apply to the road network in Western Australia.

Why is it important that a road safety auditor can demonstrate knowledge of current practice in road design or traffic engineering principles?

In conducting a road safety audit, it is important that an auditor possess knowledge of standards and guidelines. This is because this knowledge can assist in identifying findings (e.g. are sight lines sufficient for a particular speed environment?) and to ensure that suggested recommendations are feasible and do not contravene standards and best practice guidance.

A road safety audit is not a design or standards check; however auditors need to have knowledge of which standards or best practice guidelines to reference when considering a particular finding or when making an audit recommendation.