

Traffic Impact: Trip Generation & LOS Analysis

Learn to plan and evaluate traffic impact studies, from trip generation and operational analysis to safety assessment.

5 Days

DURATION

5

MODULES

26

TOPICS

COURSE OVERVIEW

This course covers the purpose, need and policy context of traffic impact analysis, including the methodology meeting used to scope studies. It addresses operational analysis of existing conditions and projected traffic, covering trip generation, trip distribution, modal split, traffic assignment and forecasting. It examines safety analysis, including crash history, conflict analysis, sight distance, signal warrants, geometry and truck movements. It closes with the overall traffic impact assessment process, covering improvement analysis, seasonal variations and regional demand models versus growth rates.

WHO THIS COURSE IS FOR

Traffic Engineers

Transportation Planners

Traffic Impact Analysts

Highway Engineers

Urban Planners

LEARNING OBJECTIVES

- Explain the purpose and need for traffic impact analysis
- Describe sustainable transport objectives and policy context
- Identify key locations and scenarios for analysis
- Analyse existing conditions including traffic volumes and capacity
- Apply trip generation and trip distribution techniques
- Assess modal split, traffic assignment and forecasting
- Evaluate crash history, conflict analysis and sight distance
- Plan the overall traffic impact assessment process

5 Modules, 26 Topics

DAY 1

01

Introduction to Traffic Impact Analysis and Studies

TOPICS

Purpose of Traffic Impact Analysis · Need for Traffic Impact Analysis · Sustainable Transport Objectives · Policy Context · Methodology Meeting

DAY 2

02

Operational Analysis 1

TOPICS

Traffic Impact Analysis Framework · Identify Key Locations and Scenarios

ANALYSIS OF EXISTING CONDITIONS

Physical Characteristics and Data Collection · Traffic Volumes · Capacity / Level-of-Service

DAY 3

03

Operational Analysis 2

PROJECTED TRAFFIC

Trip Generation · Directional Orientation (Trip Distribution) · Evaluation of Other Modes (Modal Split) · Traffic Assignment · Traffic Forecasting

DAY 4

04

Safety Analysis

TOPICS

Crash History and Data Collection · Data Analysis · Conflict Analysis · Intersection Sight Distance · Signal Warrants · Horizontal and Vertical Geometry · Truck Movements

05

Overall Traffic Impact Assessment Process

TOPICS

Traffic and Improvement Analysis · Seasonal Variations · Regional Demand Model vs. Growth Rates · Overall Traffic Impact Assessment Process

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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