Course Number
FHWA-NHI-151043

Course Title
Integrating Transportation and Land Use

The course is designed to help practitioners plan multimodal transportation systems that supports community development goals and shape land use patterns that support transportation system performance goals. Course lessons include determining the interplay between transportation systems and land use development patterns, the processes and principles that influence integrated transportation and land use planning, and strategies for applying integrated land use and transportation principles to different types and scales of planning and decision-making processes.

Outcomes
Upon completion of the course, participants will be able to:

• Identify key concepts related to integrating transportation and land use.
• Define accessibility.
• Use a travel diary to calculate accessibility for different scales of communities.
• Describe the unwritten rules for optimizing accessibility that affect urban development patterns.
• Illustrate the inverse relationship between the two strategies for optimizing accessibility.
• Examine the impacts of accessibility on travel-time, land, travel, and opportunity costs.
• Summarize the iterative relationship between the scale of a town, city, or region and the characteristics of its economic activity and its transportation network.
• Describe the relationships among proximity, travel speeds, and travel modes across the range of urban development patterns.
• Distinguish roadway level of service measures from accessibility level of service measures.
• Describe analysis methods and policy tools for integrating land use and transportation planning.
• Predict how decisions made by private sector individuals and public sector planning agencies influence the development patterns and socio-economic characteristics of an urban or regional system.
• Differentiate between beneficial and detrimental actions of participants in the land use and transportation planning and decision-making process.
• Identify the elements that contribute to integrated planning.
• Explain the relationships among the three principles of integrated planning and its three supporting elements.
• Determine appropriate strategies for applying integrated planning principles to a regional multimodal plan.
• Choose appropriate strategies for applying integrated planning principles to transportation corridor project planning and design.
• Determine appropriate strategies for applying integrated planning principles to municipal land use planning and regulatory processes.

Target Audience
Primary: Mid-level State DOT employees, City and County engineers and planners, MPO staff, transit operators, Federal employees (FHWA, FTA, EPA), resource agency staff, consultants. Secondary: Elected officials, regulatory agency staff, local zoning officials, site designers, citizen activists, developers, media representatives and business leaders.
TRAINING LEVEL: Intermediate

FEE: 2022: $0 Per Person; 2023: N/A

LENGTH: 7 HOURS (CEU: .7 UNITS)

CLASS SIZE: MINIMUM: 20; MAXIMUM: 30

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