Pavement Design Of Roads Training

Description

Course Description

This course outlines **pavement design of roads**. All three accepted methods of pavement design are covered, including Soil Factor, R-value thickness, and an introduction to MnPAVE for thickness design. design guide will be used to review the importance of and tools for the following elements of roadway design: data collection and accurate traffic projections; subgrade soil evaluation and best practices for enhancements; pavement section materials and specifications; and best construction practices and their effect on pavement life.

Course Objective

- Review soil factor and R-value thickness design
- Introduction to MnPAVE for thickness design (including practical exercises)
- Review subgrade soil evaluation and best construction practices
- Overview subgrade soil enhancement practices in Minnesota
- Review pavement section materials and best construction practices

Course Outline

- types of road pavement
- soil characteristics
- pavement layers
- traffic loads
- design of asphalt mixes using Marshall design method
- Stresses in flexible pavement
- Design of flexible pavement using AASHTO design method
- Performance based tests of asphalt pavement