



**DESIGN AND MAINTENANCE OF GUARDRAIL / BARRIER SYSTEMS
FOR URBAN AND RURAL ROADWAYS (TS-03)**
COURSE OUTLINE

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|---------------|---|
| 8:00 - 8:30 | 1. INTRODUCTION (+ VIDEO) |
| 8:30 - 10:00 | 2. CLEAR ZONE CONCEPT (+ VIDEOS) |
| 10:00 - 10:15 | BREAK |
| 10:15 - 10:30 | 3. NCHRP 350 CRASH TESTING CRITERIA |
| 10:30 - 11:30 | 4. METAL BEAM GUARDRAIL <ul style="list-style-type: none">• GENERAL CRITERIA• GUARDRAIL NEAR SLOPES• BREAKAWAY CABLE END ANCHOR (+ VIDEO) |
| 11:30 - 12:30 | LUNCH |
| 12:30 - 2:00 | <ul style="list-style-type: none">• CRASH WORTHY END TERMINAL SYSTEMS (+ VIDEOS)• GUARDRAIL TO CONCRETE BARRIER TRANSITION• INTERSECTION AND TERMINUS GUARDRAIL• THRIEBEAM GUARDRAIL• GUARDRAIL INSTALLATION CRITERIA |
| 2:00 - 2:15 | BREAK |
| 2:15 - 3:15 | 5. CONCRETE BARRIERS (+ VIDEOS) |
| 3:15 - 3:45 | 6. BRIDGE RAIL |
| 3:45 - 4:45 | 7. IMPACT ATTENUATORS (+ VIDEOS) |
| 4:45 - 5:00 | CLOSING |