



# **Transportation Curriculum Coordination Council (TCCC)**

Addressing Challenges in  
Construction and Maintenance  
Workforce and Quality





## Topics of Discussion

- What is the TCCC
- Workforce development challenges
- Accomplishments
- Current activities underway
- Future Opportunities



## What is the TCCC?

- The TCCC is a Federal/State/Industry partnership that supports the training of the highway construction personnel.
- The goals of the TCCC are to:
  - Develop and maintain a national curriculum for various transportation disciplines
  - Identify training and certification requirements
  - Coordinate/facilitate training efforts



## TCCC Mission

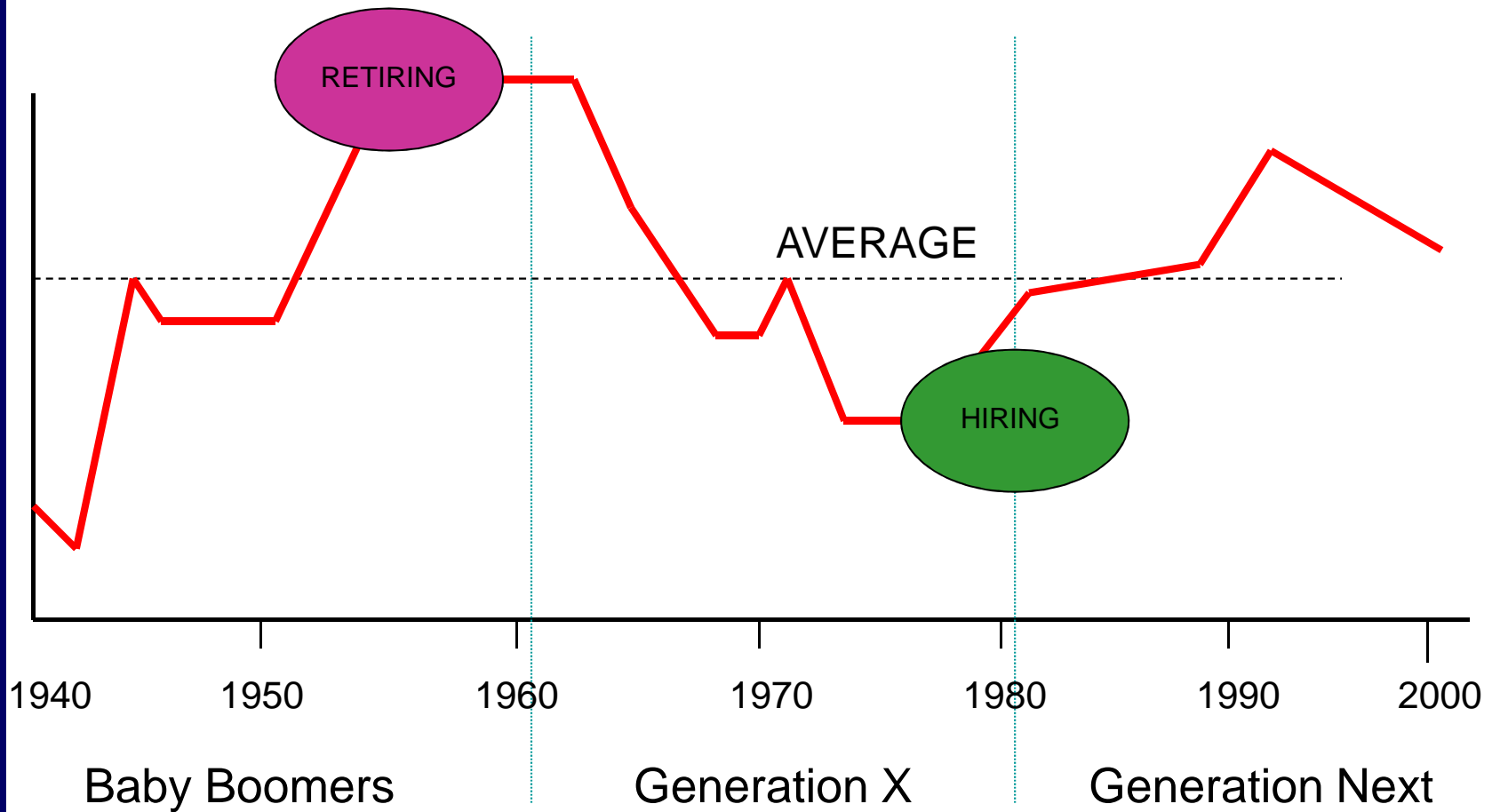
- Coordinate training and certification efforts
- Establish a national core curriculum
- Develop training materials
- Support agency training efforts



# Why Do You Need the Transportation Curriculum Coordination Council?



# US Birth Rates





## Workforce Facts

(continued)

- A 2005 report showed that there are about 950,000 vacant positions in the construction skilled trades area and it is estimated that this could rise to one million within a couple of years.
- A career in the construction industry was rated 498<sup>th</sup> out of 500 by high school students and their parents



What the TCCC has  
accomplished...







## TCCC Current Activities

- National training data base
- Training development
- E-Learning



# National Training Database

- National Interest:
  - TCCC, NTTD, LTAP
  - AASHTO, TRB, ITE
- Locating existing training from a wide variety of disciplines within construction and maintenance
- Assist in gap analysis for new course development



## Training Products Database

- Complete data on training courses
  - objectives, level, audience, tests, manuals, contacts, etc.
- Review and link to competencies by level
- Maintain online searchable training database
  - more than 50 subject areas



# National Transportation Training Resource

Supporting the Training of the Highway Workforce

[Search the NTTR](#) | [About the NTTR](#) | [Competency Matrices](#) | [What's New!](#) | [Contact Us](#) | [Feedback](#) | [FAQs](#)

## NTTR Beta - Search for Transportation Training Resources

### KEYWORD SEARCH

### ADVANCED SEARCH

[Preview Here!](#)

### Login

User Name:

Password:

[Forgot Password?](#) [Register](#)

### SEARCH BY TCCC TECHNICAL CATEGORY

Select a single term in any one or more dropdowns to return all related resources.

Please select a Technical Category...

Please select a Subject Area...

Please select a Discipline...

Please select a Skill Level...

Please select a Competency...

### In the Hot Mix

- NTTR Database Resource Count: **462**  
Contributed by 26 organizations
- Advanced Search capability now available.
- Feedback Form is available.

[See More News...](#)

Use the search tools to look for resources. Your search results will appear here.





## Completed Web Based Training

- FHWA-NHI-131117
  - Basic Materials for Highway and Structure Construction and Maintenance
- FHWA-NHI-131122
  - Portland Cement Concrete Paving Inspection
- FHWA-NHI-134069
  - Ethics Awareness for the Transportation Industry
- FHWA-NHI-134071
  - Basic Construction and Maintenance Documentation - Improving the Daily Diary
- FHWA-NHI-134072
  - Math Module
- FHWA-NHI-134075\*
  - Hardened Concrete Properties – Durability
- FHWA-NHI-134078
  - GPS Technology
- FHWA-NHI-134081
  - Plan Reading
- FHWA-NHI-134084\*
  - Fundamentals of Materials Used for Concrete Pavements



## Completed Web Based Training

- FHWA-NHI-134085\*
  - Incompatibility in Concrete Pavement Systems
- FHWA-NHI-134087\*
  - Mix Design Principles
- FHWA-NHI-134095\*
  - Early Age Cracking
- FHWA-NHI-134096\*
  - Basics of Cement Hydration
- FHWA-NHI-134097\*
  - Fresh Properties
- FHWA-NHI-134098\*
  - Construction of Concrete Pavements
- FHWA-NHI-134100\*
  - QCQA for Concrete Pavements
- FHWA-NHI-134101\*
  - Design of Pavement
- FHWA-NHI-134102\*
  - Troubleshooting for Concrete Pavements





## Training Development In Progress

- FHWA-NHI-131121
  - Construction of PCC Pavements
- FHWA-NHI-131126
  - Concrete Pavement Preservation
- FHWA-NHI-131127
  - Concrete Series (IMCP Manual)
- FHWA-NHI-134074
  - Bolted Connections
- FHWA-NHI-380098
  - Maintenance of Traffic for Technicians
- FHWA-NHI-380099
  - Maintenance of Traffic for Supervisors
- FHWA-NHI-131128
  - Self Consolidating Concrete
- FHWA-NHI-134105
  - Surveying
- FHWA-NHI-134106
  - Pipe Inspection
- FHWA-NHI-380101
  - Safety Orientation





## Training Development On Deck

- Geotechnical (August)
- Flagger Training (August)
- Earthwork (September)
- Transportation Project Management (September)
- Clear Road Series (TBD)
- Maintenance Safety (TBD)
- MEPDG (TBD)



# Future Opportunities



## Supporting TCCC

### How can State Partners Support TCCC:

- Provide financial support to Pooled Fund (TPF – 5(209))
- Volunteer for Technical Panels for Course Development
- Contribute a course to the NTTR that you or your state/organization has developed
- Volunteer on TCCC committees that collect, analyze and develop training resources



## For Information

**For more information, visit:**

**[www.nhi.fhwa.dot/tccc](http://www.nhi.fhwa.dot/tccc)**

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Thank You

Questions?

