



Transportation Curriculum Coordination Council (TCCC)

Helping to Build the
Maintenance Workforce of
Today and Tomorrow

Topics of Discussion

- What is the TCCC
- Workforce development challenges
- TCCC core curriculum matrices
- Training data base
- Web-based training
- Maintenance academy



Transportation Curriculum Coordination Council

An eight-year old public/private partnership that is assembling a curriculum aimed at producing the highly-skilled transportation workforce our mobility demands.



Partnership Effort

- Regional certification groups
- AASHTO subcommittees
- Local transportation agencies
- FHWA / NHI
- Industry groups
- Academia



TCCC Mission

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



Workforce Facts

- Average age nationwide of skilled trade construction workers is 48 years
- Many born during 1945–1950 will retire in 2010–2015
- There were not enough children born in America between 1990 - 1995 to replace them



Workforce Facts

- There will be over 950,000 vacant positions in the construction skilled trades area by the end of next year, and it is estimated that we will lose one million a year thereafter
- A career in the construction industry was rated 498th out of 500 by high school students and their parents



How is TCCC Meeting the Need?



Curriculum Matrices

- Developed matrices listing core competencies for four skill levels in the following areas
 - Maintenance
 - Construction
 - Materials
 - Safety and Work Zone
 - Workforce Development



DISCIPLINES	COMPETENCIES BY SKILL LEVELS			
	Level I	Level II	Level III	Level IV
Surface Preparation	Assists in performing surface inspections	Inspects surface for proper preparation in accordance with contract documents	Recommends acceptance or corrective action based on inspection results	Determines contract decisions related to surface preparation acceptance and payment
			Documents and follows up on corrective actions	Recommends disciplinary action when corrective measures are not taken in a reasonable time frame
Concrete Delivery	Assists in inspections of delivery vehicles to make sure they are in good working condition	Inspects trucks to assure that all gauges, meters, etc. are in working order	Recommends acceptance or corrective action based on inspection results	Determines contract decisions related to concrete delivery acceptance and payment
		Checks for worn parts that could affect mix quality	Documents and follows up on corrective actions	Recommends disciplinary action when corrective measures are not taken in a reasonable time frame
		Collects load tickets		
		Verifies correct mix was shipped		

Increasing skill level

Competencies by skill level

National Transportation Training Resource Database

- National Interest:
 - TCCC, NTTD, LTAP
 - AASHTO, TRB, ITE
- Identifying existing training courses
- Determining new training needs

Database will be launched in 2008



National Transportation Training Resource 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





Transportation Curriculum Coordination Council

TRAINING RESOURCE DATABASE

Home

Search

Add Event

About Us

Feedback

Welcome to the Transportation Curriculum Coordination Council (TCCC) Training Clearinghouse. The purpose of this website is to provide transportation professionals with resources needed to develop a skilled workforce and further their own professional development.

Resources available include course offerings, schedules, and contact information; web-based seminars; conferences; and other training and capacity building documentation.

Search for Resources

In the boxes below, you can select one or more terms by holding down the Control button on your keyboard. You can also select terms in one or more of the boxes. The more terms you select, the fewer resources will be returned.

Construction

Employee
Development

Maintenance

Materials

Safety &
Workzone

Subject Area:

- All
- Contract Administration
- Quality Assurance
- Environment
- Construction Inspection

Discipline:

- All
- Right of Way (ROW) Mgt
- Contractor Payments
- Supplemental Agreements
- Force Accounts

Skill Level:

- All
- Level I
- Level II
- Level III
- Level IV

Resource Type:

- All
- Blended
- CD-ROM
- CD-ROM, Classroom Option
- Classroom Course

Key Word Search

This search works in combination with whatever terms are selected above.

Sample web page

New TCCC Website

Website will offer:

- National Transportation Training Database
(Coming Soon)
- Direct link to Web Based Training Courses
- Listing of all TCCC training courses
available through NHI



Web Based Training Courses

5 Free Online Training Courses Available Through Partnership with NHI

- Ethics Awareness for the Transportation Industry
- Basic Construction and Maintenance Documentation
- Improving the Daily Diary
- Basic Materials for Highway and Structure Construction and Maintenance
- Hardened Concrete Properties (Durability)



Web Based Training Courses

5 additional Online Training Courses
Coming Soon

- GPS Technology
- Math
- Stormwater
- Plan Reading
- Bolt Connections



Training Under Development

- Maintenance Academy
- Inspection of Bridge Rehabilitation Projects
- Environmental Factors in Construction
- Advanced Emulsion Technology
- Embankment Construction Inspection
- Inspection of Pipe Installation



Maintenance Academy

- Made up of six modules
 - Administration – 27 hours
 - Pavement and bridge preservation – 31 hours
 - Roadside maintenance and drainage – 19 hours
 - Weather related operations – 6 hours
 - Traffic services / safety / work zones – 12 hours
 - Environmental protection – 20 hours



Maintenance Administration

- Asset management
- Performance improvement
- Quality assurance in maintenance operations
- Customer service
- Program presentation
- Contract management
- Fleet management
- Planning, budgeting, and scheduling



Pavement and Bridge Preservation

- System preservation
- Pavement evaluation and analysis
- Shoulder maintenance
- Crack sealing
- Thin surface treatments
- Pavement repair
- Thin HMA overlays
- Base / Sub-base stabilization
- Bridge preservation



Roadside Maintenance and Drainage

- Drainage
- Soils and slopes
- Outdoor advertisement and litter control
- Rest areas / roadside parks
- Roadside vegetation management
- Beautification / landscape management



Weather Related Operations

- Weather related operations



Traffic Services & Safety

- Work zone traffic control
- Signs / striping
- Guardrail median barrier
- Incident management



Environmental Protection

- Permits
- SPCC
- SWPPP
- Waste materials management
- Underground storage tanks
- Herbicide and pesticide control
- Endangered species
- Cultural / historic preservation
- Environmental management systems
- Air Quality



**For more information about
the TCCC go to:**

www.nhi.fhwa.dot/tccc

Or contact:

Jim Feda

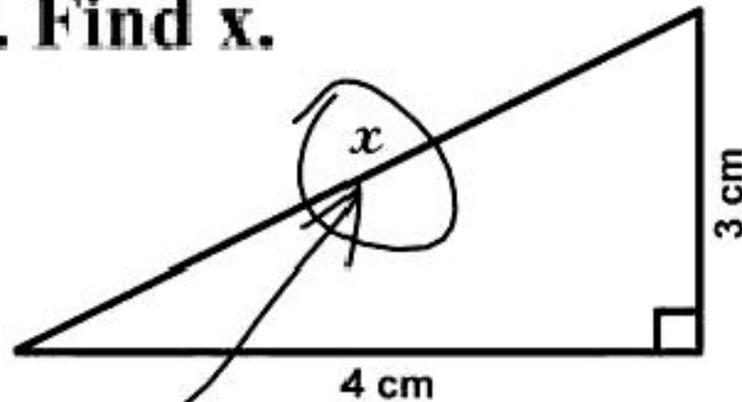
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QUESTIONS?

3. Find x .



Here it is

