

Using a Learning Management System (LMS) for Program Management and Evaluation of Public Health Preparedness Training

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Acknowledgements

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Objectives

- Describe how a LMS can be used to address training program challenges
- Identify the benefits of using a LMS for public health preparedness program evaluation and management
- Identify lessons learned from evaluation of self-reported data and specific fields currently on TRAIN

Challenge: The Public Health Workforce Is Spread Out... . . .

- Institutionally
- Geographically
- By jurisdiction
- Between different levels of government

Advantages of a Web-based LMS

- Standardized curricula
 - Easy to update centrally
- Evaluation data
 - Pre and post tests
 - Registration and course completion
 - Course satisfaction
- Accessible 24/7
- Customized learning based on individual needs

Program Evaluation

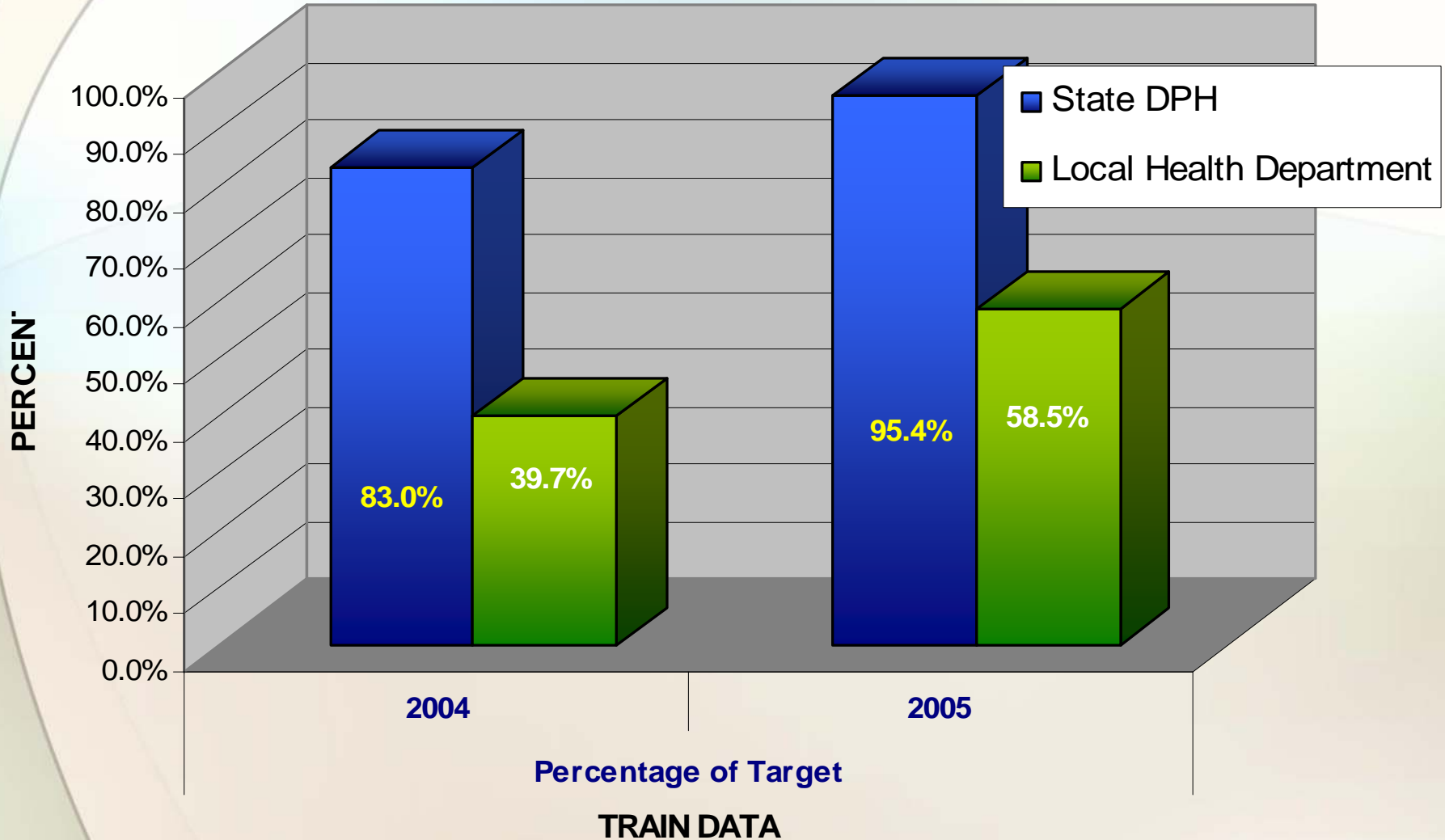
- How many and who participated in core preparedness training?
- Are we reaching our targets?
- If not, where do we direct training resources and marketing efforts?

Public Health Emergency Preparedness Training Plan 2005-2006 (*July 2005 version*)

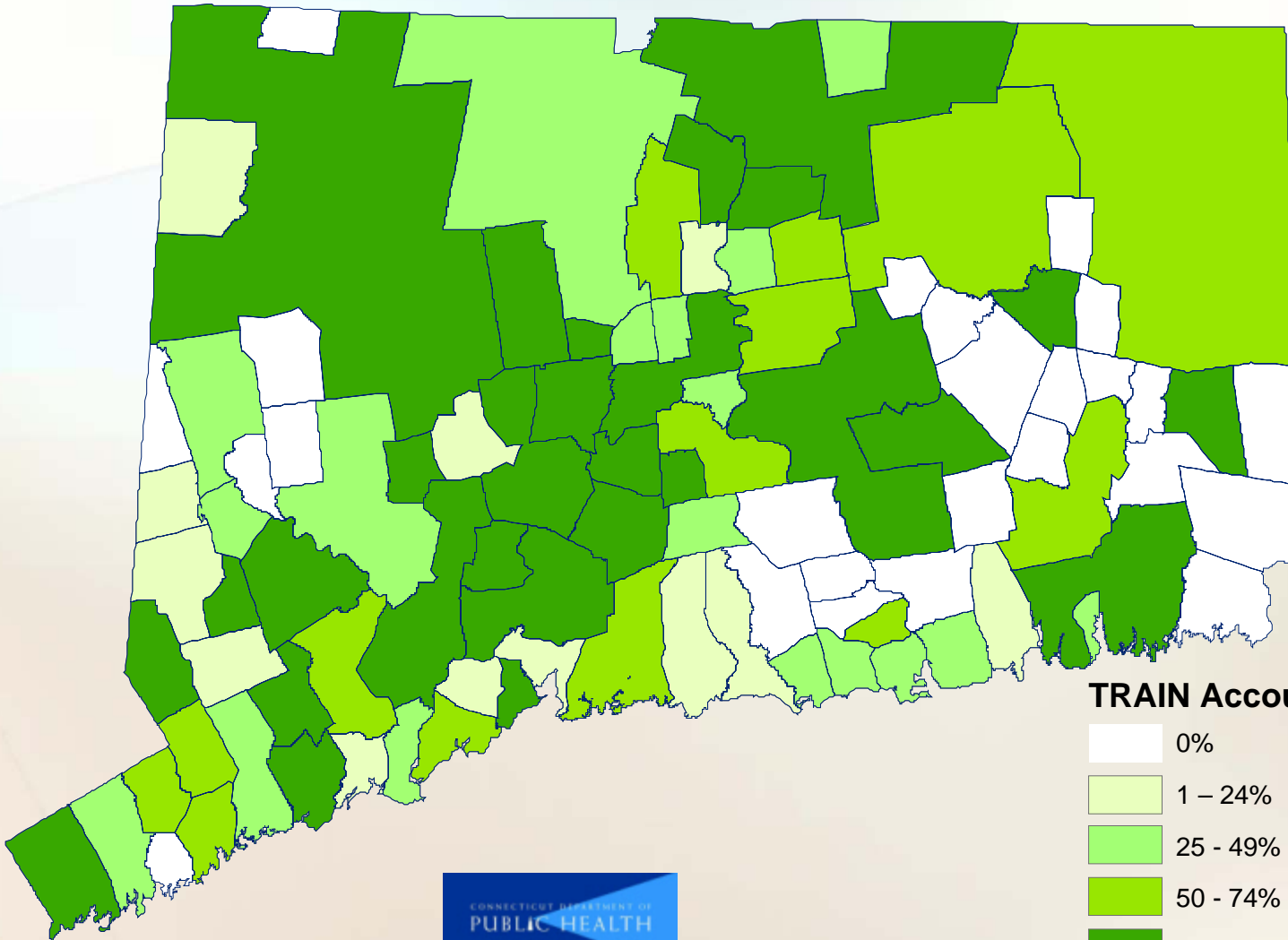
Table 8

Course or Area of Study by Training Level : Core Courses for 2005- 2006	Estimated Target Audience #	Cumulative # Learners Reached (5/05)	Training Penetration Rate
Level 1: All State and Local Public Health Workers			
Introduction to Public Health	1325	300	23 %
Public Health Emergency Preparedness 101	2650	1190	45 %
Strategic National Stockpile Video	2650	88	3 %
Software training, various levels as needed	n/a	418	
<i>Introduction to Mass Dispensing Clinics for Public Health Workers (To be developed)</i>	2650	0	0%
Level 2: State and Local Public Health Professional Staff			
Basic Epidemiology for Public Health Nurses	467	52	11 %
Emergency Preparedness for Public Health Nurses	467	36	8 %
Fundamentals of Epidemiology and Field Investigation	606	106	17 %
Fundamentals of Crisis and Emergency Risk Communication + Risk & Crisis Communication (CADH)	1519	235	15 %
Terrorism, Preparedness and Public Health	1519	0	0 %
ICS/NIMS for Public Health Professionals/IS 100 Introduction to Incident Command System, I-100	1519	299	20 %
IS 200 Basic Incident Command System, I-200	1519	0	0 %
IS 700 National Incident Management System (NIMS), An Introduction	1519	167	11 %
IS 800 National Response Plan (NRP), An Introduction	1519	0	0 %
Summer Institute in Public Health Preparedness and Practice	n/a	128	
Certificate Program in Core Public Health Competencies	n/a	4	
<i>Biohazard Detection System (Delivery in 05/06) (see also level 4)</i>	1,519	0	0%
<i>Legal Basis of Public Health for Public Health Emergencies (Delivery in 05/06)</i>	1519	106	7%
<i>GAPS: 1) Role and Interface with Public Health Laboratories, 2) Environmental Health and Disasters, 3) Psycho-Social/Mental Health Issues</i>			
Level 3: State and Local Public Health Leaders and Community Physicians			
Public Health Worker Incident Safety	170	85	50 %
Emergency Risk Communication CDCynergy	92	76	83 %
Smallpox: A Medical and Public Health Primer	8499	15	0 %
A Primer for Public Health Professionals: Nerve Agents	8499	20	0 %
Public Health Leadership Program	170	67	39 %
Isolation and Quarantine Workshops	170	184	108 %
<i>MEDSAT (To be delivered in 05/06)</i>	184	0	0%
<i>Advanced Training in Isolation and Quarantine (To be developed in 05/06)</i>	170	0	0%

Percentage of TRAIN Accounts by Public Health Agency, State of Connecticut, 2005



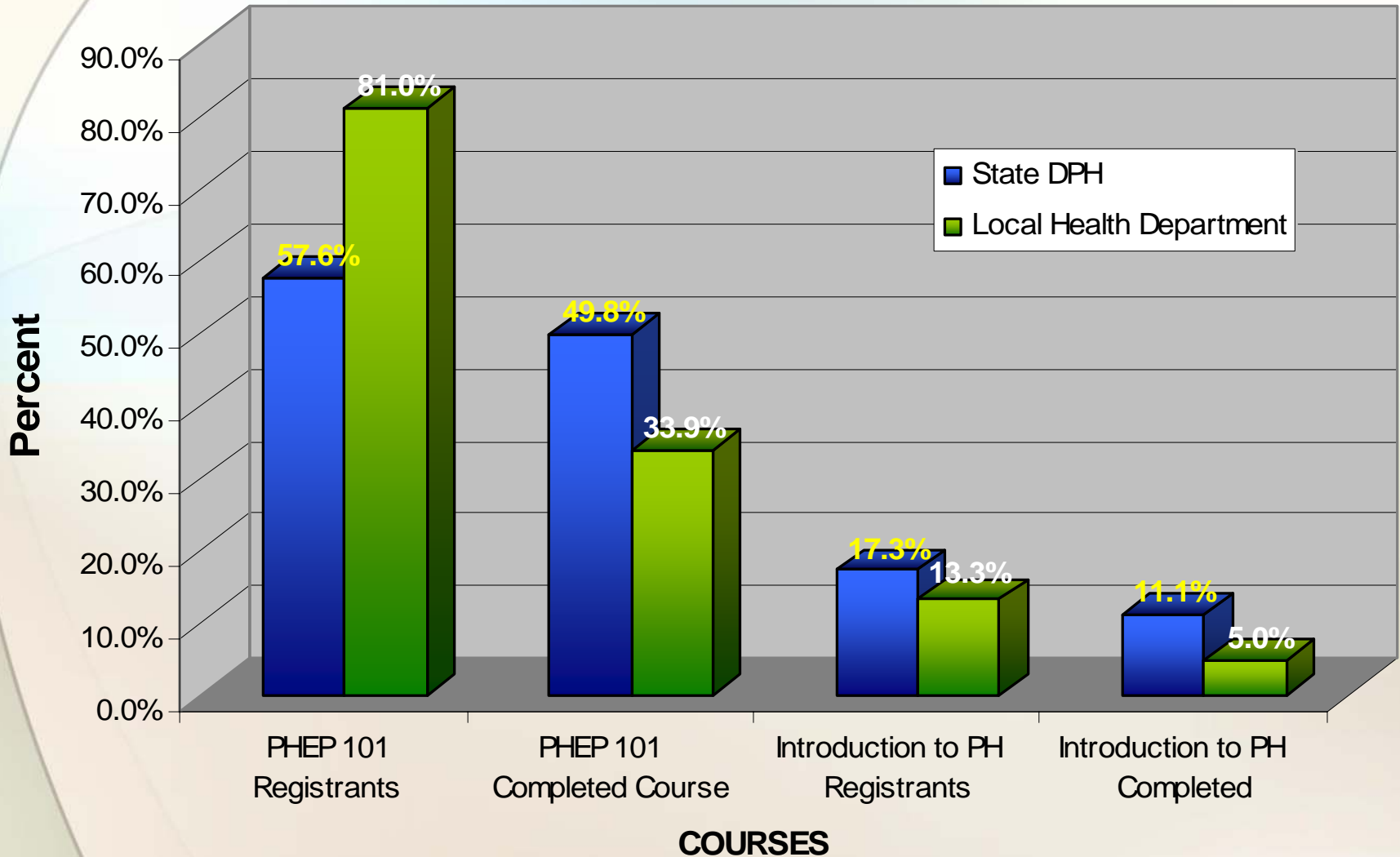
TRAIN Accounts: Percentage of Coverage by Local Health Department/ District Connecticut, 2005



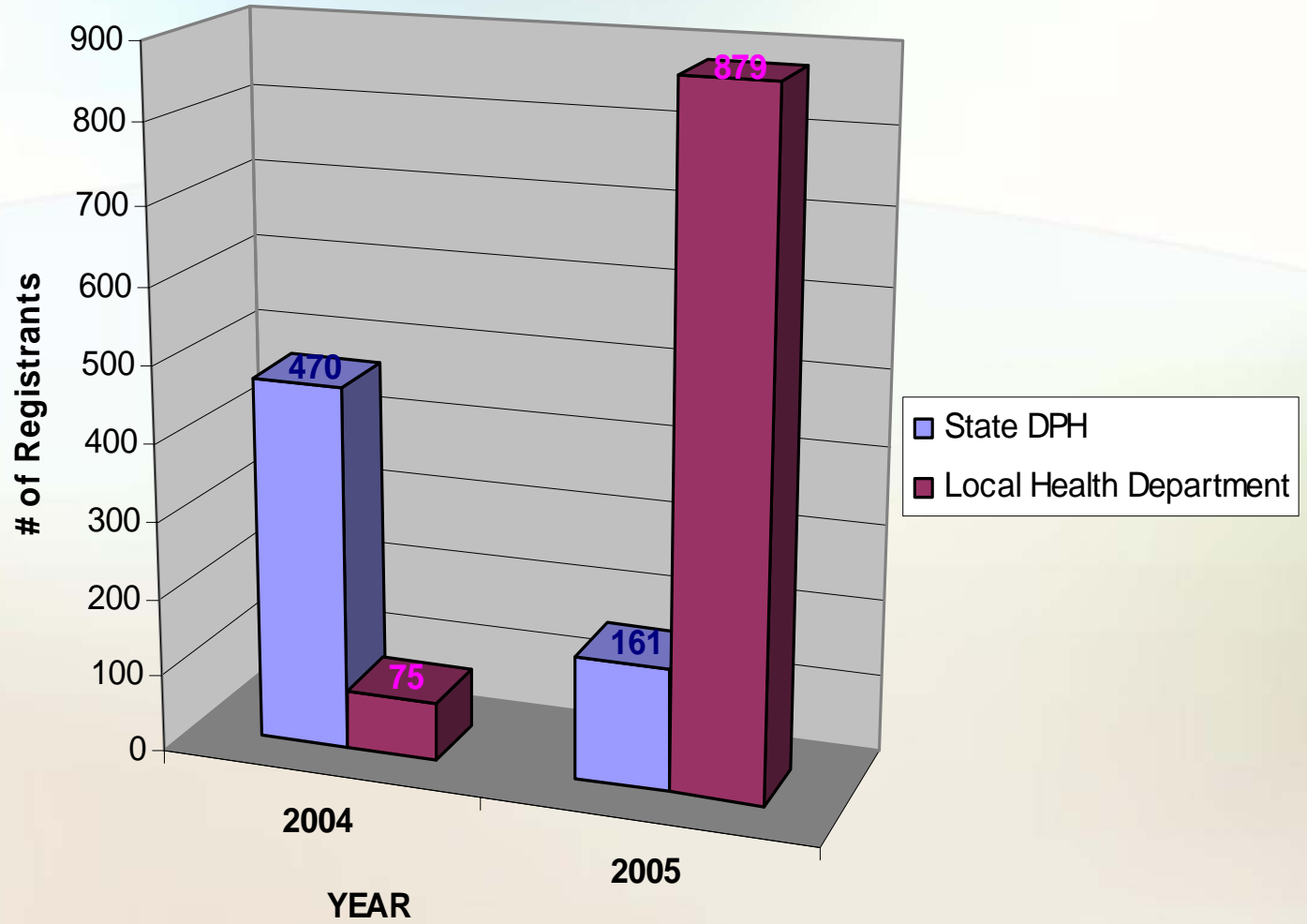
TRAIN Account 2005

- 0%
- 1 - 24%
- 25 - 49%
- 50 - 74%
- 75 - 100%

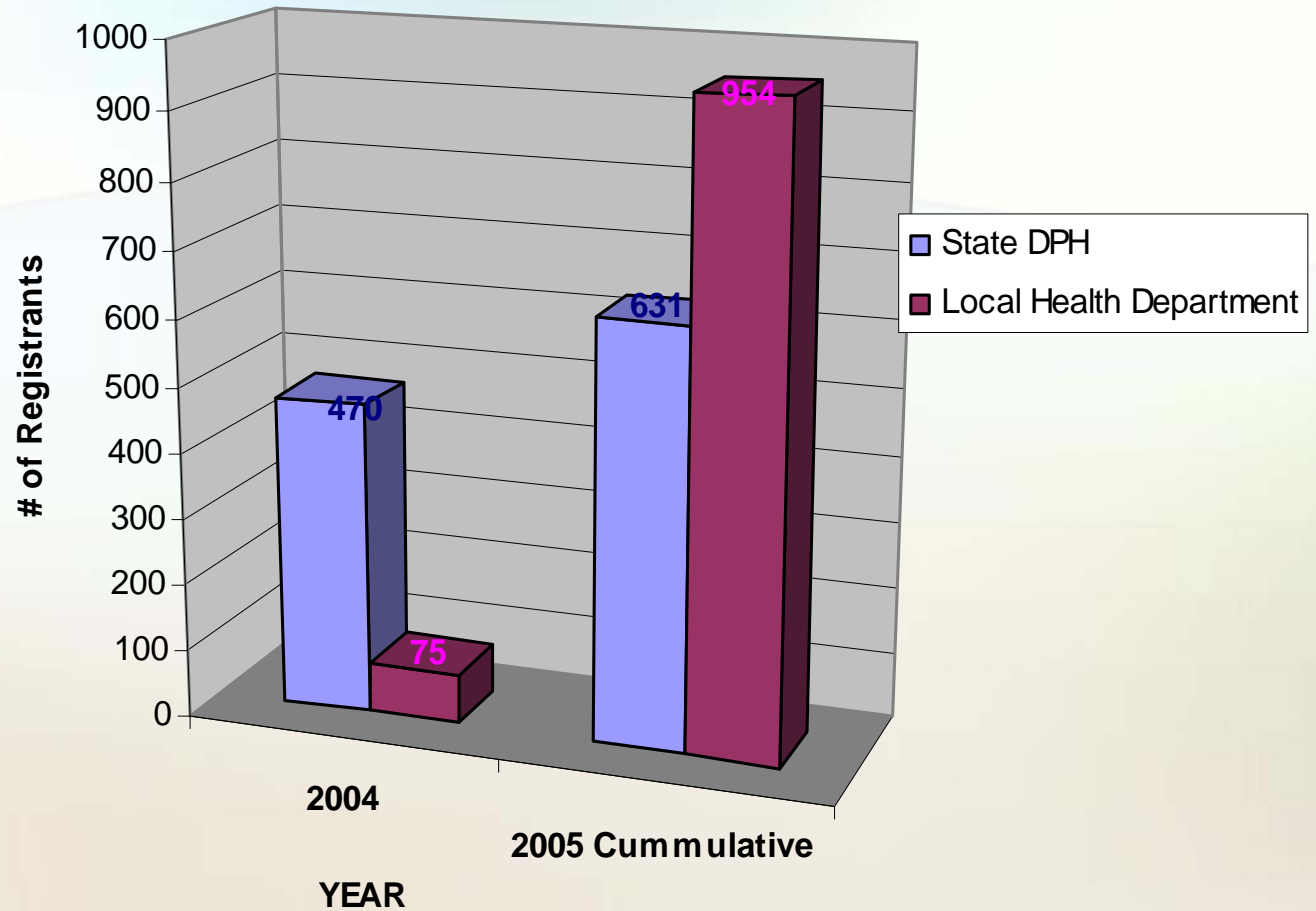
Comparative Performance Analysis for Selected TRAIN Courses by Public Health Agency Among TRAIN users. State of Connecticut, 2005



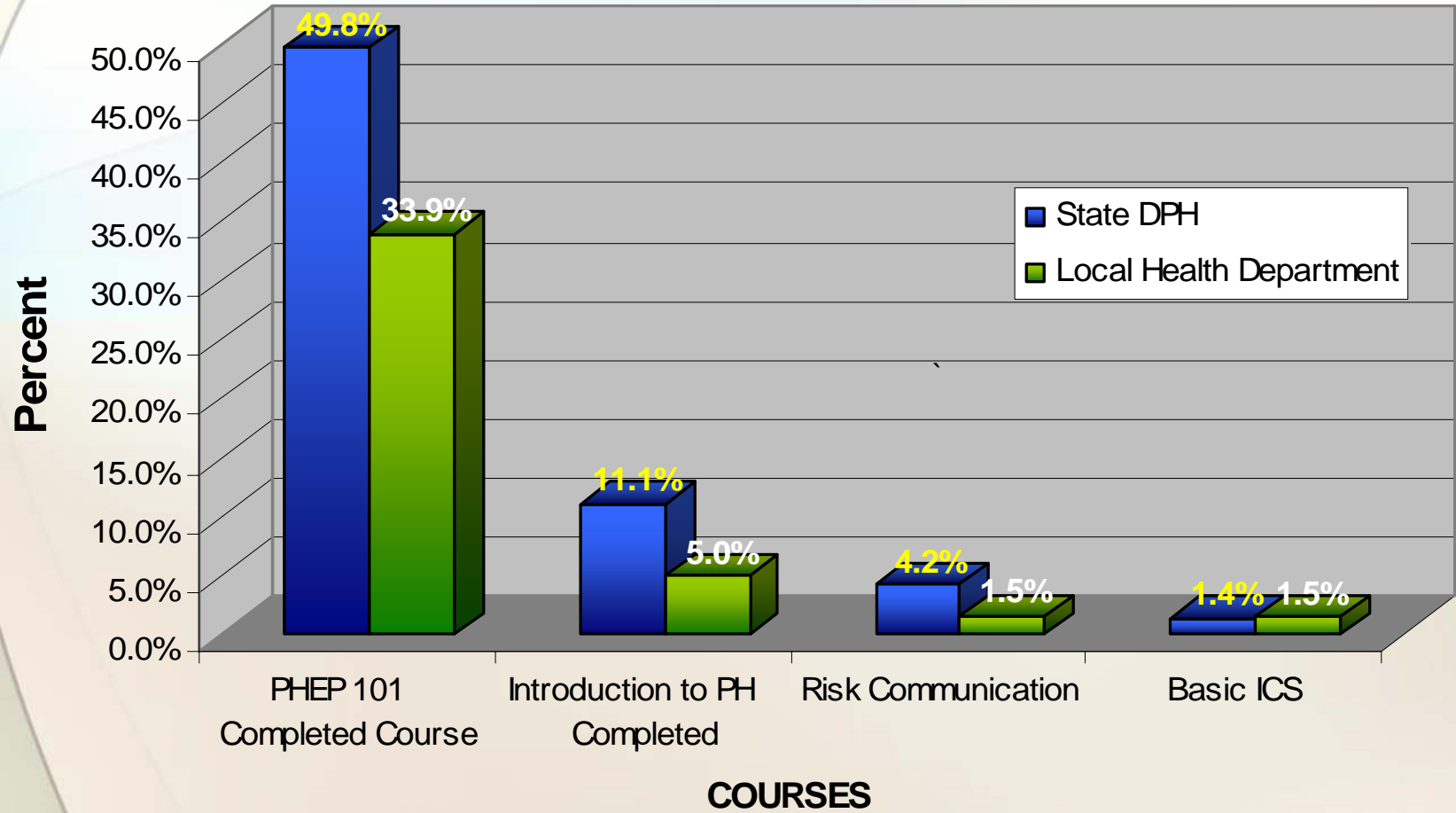
**PHEP 101: New Registrants by Health Agency.
TRAIN Connecticut, 2004 - 2005**



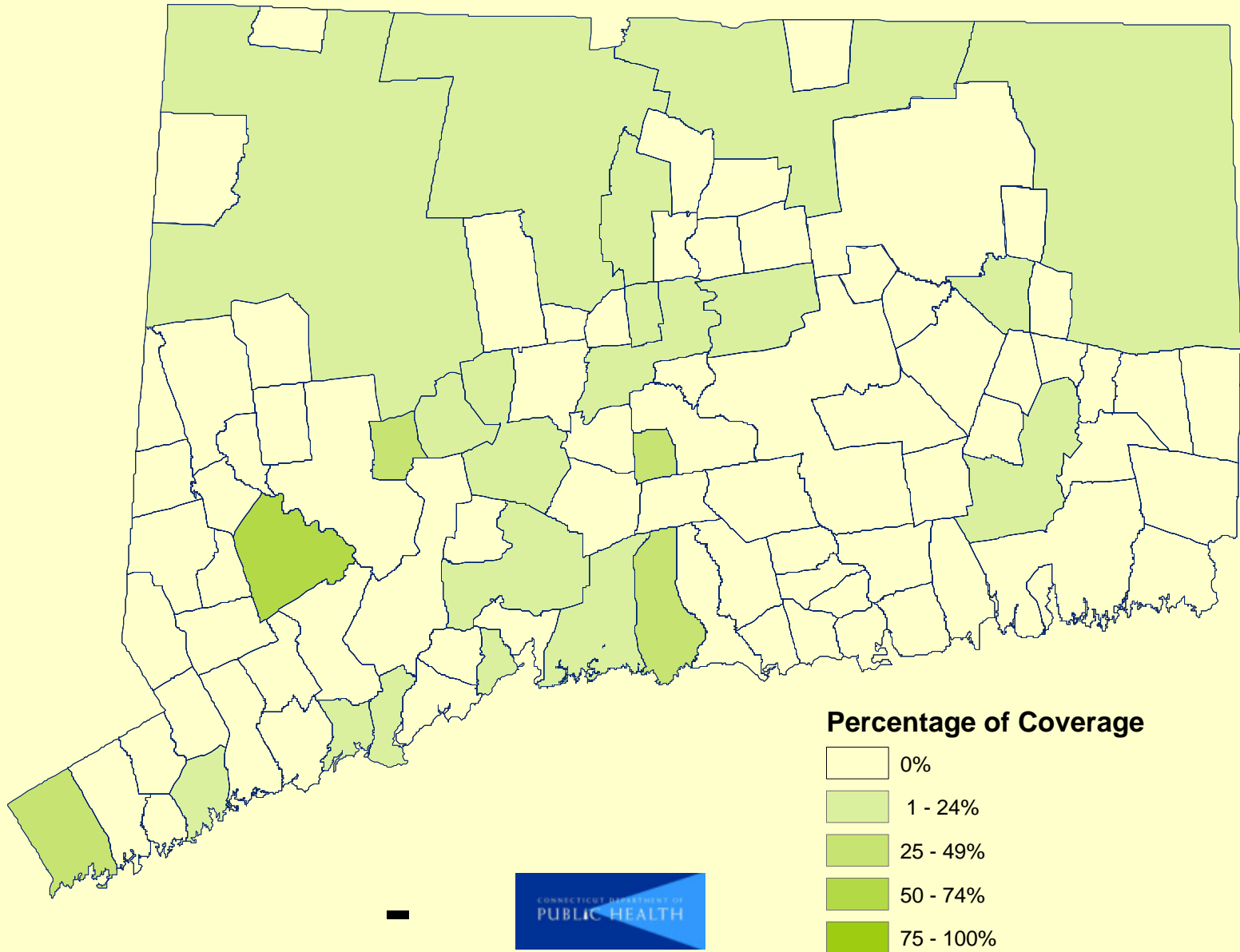
PHEP 101: Cumulative Number of Registrants by Health Agency. TRAIN Connecticut, 2004 - 2005



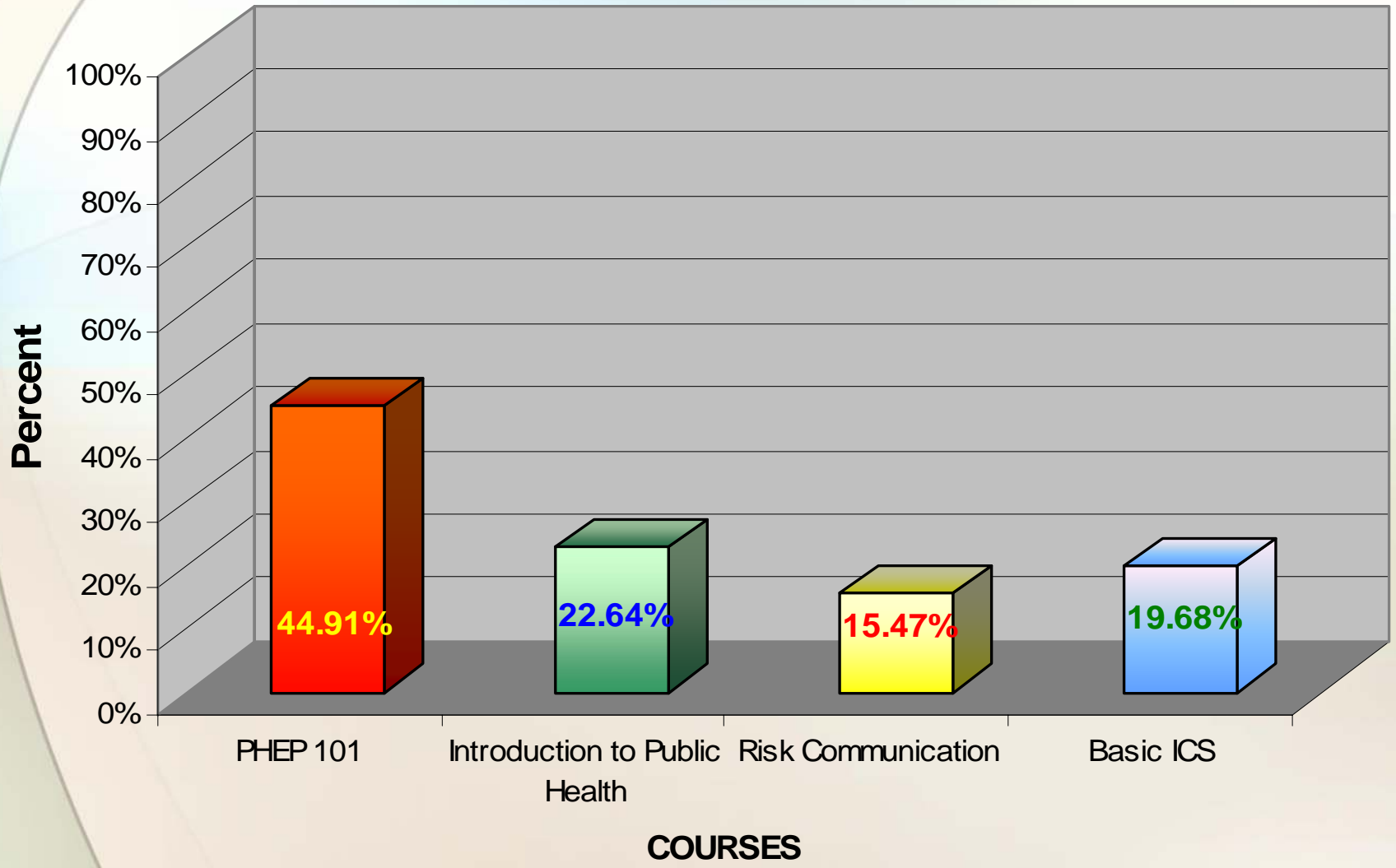
**Comparative Completion Rate for Selected Public Health Core Courses by
Public Health Agency TRAIN users,
State of Connecticut, 2005**



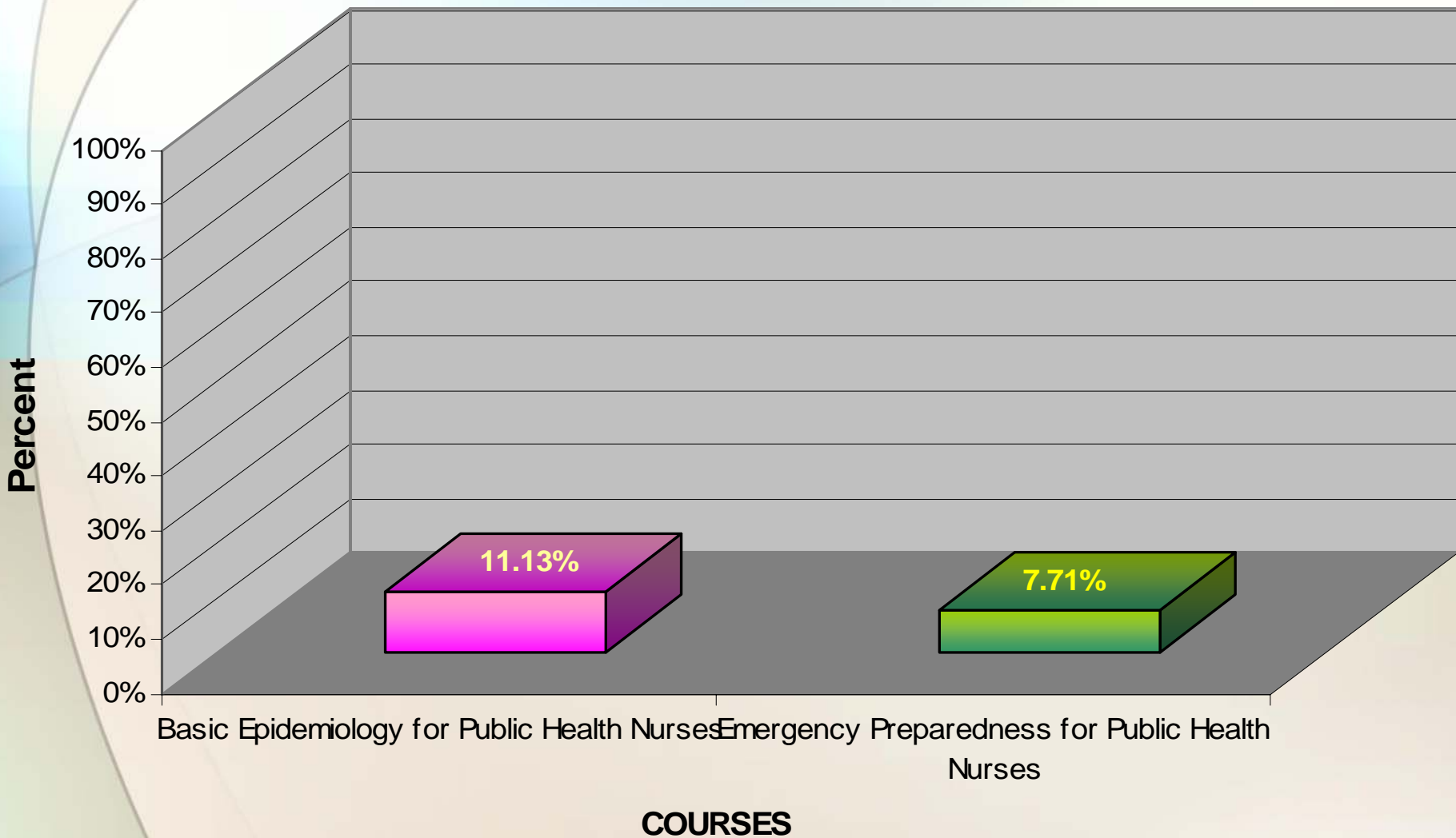
Introduction to Public Health: Snapshot Coverage Connecticut, 2005



Selected Public Health Core Courses: Completion Rate of the Targeted Workforce State of Connecticut, 2005



Selected Public Health Core Courses: Completion Rate of the Targeted Workforce State of Connecticut, 2005.



Conclusions

- TRAIN providing us with ballpark workforce penetration rates to monitor targets for core training
- Data quality issues need to be addressed to help with program evaluation
 - Training to standardize inputs on self-reported data for both user and course provider
 - Primary and secondary selections for groupings, professionals roles and work settings
- TRAIN needs to be used as the standardized method for tracking course completion and training plan penetration rates