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## State of New Mexico LEGISLATIVE FINANCE COMMITTEE

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May 11, 2015

### Memorandum:

To: Senator John Arthur Smith, Chairman, Jimmie Hall, Vice Chairman, and Members of

the Legislative Finance Committee

From: Rachel Mercer-Smith, LFC Program Evaluator

Through: David Abbey, LFC Director, and Charles Sallee, LFC Deputy Director

Re: Health Notes

In 2012, the LFC produced the program evaluation titled Adequacy of New Mexico's Healthcare Systems Workforce. This evaluation addressed the adequacy of New Mexico's health system to meet the demands brought about by the implementation of the Affordable Care Act, explored current, near-term, and anticipated long-term demand for preventative services, and identified key areas where workforce strategies might be developed to meet demand. In particular, the report noted educational strategies may be used to address workforce shortages and highlighted the provider needs of certain regions. By connecting graduates who earned health care-related degrees to Workforce Solutions Department data, the LFC was able to conduct analysis to highlight workforce pipeline patterns and analyze where graduates in various health care-related fields ultimately work.

The attached Health Notes are provided as a follow-up to the initial report and are intended to highlight the state's capability to track where post-secondary graduates come from and where they ultimately work. The Notes include data about graduates from the following post-secondary institutions between 2009 and 2011:

- Central New Mexico Community College (CNM);
- Dona Ana Community College (DACC);
- Eastern New Mexico University (ENMU);
- Luna Community College (LCC);
- New Mexico Highlands (NMHU);

- New Mexico Junior College (NMJC);
- New Mexico State University- Main Campus (NMSU);
- Santa Fe Community College (SFCC);
- San Juan College (SJC);
- University of New Mexico- Main Campus (UNM); and
- Western New Mexico University (WNMU).

<u>Statewide Findings.</u> Between 2009 and 2011, 5,075 adults earned health-care related degrees from included institutions. These adults earned degrees in a variety of disciplines, including nursing, social work, technical fields, and counseling, and they earned degrees at all levels, from certificates to doctoral-level degrees. In FY13, 61 percent of these graduates were working in New Mexico, and 52 percent were working in health-related businesses.

### New Mexico Healthcare Graduates 2009-2011

Total Health-Related Graduates	5,075	
Graduated from a High School in New		
Mexico	3,136	62%
Work in New Mexico, 2013	3,089	61%
Work in a Health-Related Business,		
2013	2,623	52%

Source: LFC analysis

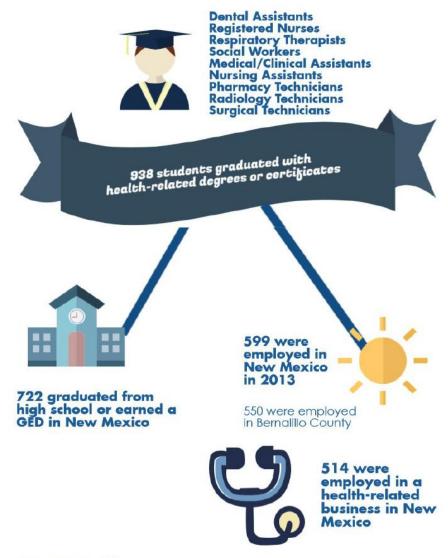
As the individual health notes demonstrate, many graduates attended high school in the county in which they received a post-secondary degree, and many graduates go on to work in the same county. Thus, the production of New Mexico's healthcare workforce appears to often be a local effort. Additionally, this analysis suggests if healthcare graduates engage in work in New Mexico, they do typically work in a health related field; 85 percent of the graduates working in New Mexico were employed by a health-related business.

<u>Future Work.</u> The attached Health Notes highlight the state's existing ability to track students from New Mexico's higher education system to the workforce. In the future, this sort of analysis may be used to analyze pipeline patterns to determine where high school students attend post-secondary training and where and in what profession they ultimately work. Such analysis may then be used to meet the state's workforce needs.

About the Data. The Higher Education Department is able to match graduates, using unique identifiers, to unemployment insurance (UI) data collected by the Workforce Solutions Department. All adults whose employers pay into the UI system may be linked to HED data. The UI data contains North American Industry Classification System (NAICS) codes, which define business establishments based on the primary activities in which they are engaged. As a result, employees are linked to businesses. While the individual person's role is not known, analysis can be performed to identify the type of business in which an employee works, and inferences can be made about whether or not the individual is employed in an industry related to their post-secondary education.

Program Evaluation Unit Legislative Finance Committee May 1, 2015

### Central New Mexico Community College 2009—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





CNM 2009- 2011 Healthcare Workforce Graduates

High School	
Albuquerque High	23
Belen High Bernalillo High	12 14
Del Norte	29
Freedom High	11
GED in New Mexico	101
Highland High	31
La Cueva	19
Los Lunas	14
Rio Grande High	45
Rio Rancho High	26
Sandia High	43
Valley High	35 38
West Mesa High Other New Mexico High School	281
Out of State	247
Total	938

Graduates		
Dental Assistant	54	
Licensed Practical Nurse	55	
Medical Radiologic Technology	41	
Nursing Assistant	58	
Registered Nurse	514	
Pharmacy Technician	97	
Radiologic Technology Science	18	
Respiratory Care Therapist	63	
Surgical Technology	38	
Total	938	

2013 New	Mexic	o Employment Data	
County		Type of Busine	ss
Bernalillo	550	Continuing Care Retirement	10
Sandoval	11	General Medical and Surgical Hos- pitals	252
Other County in New Mexico	38	HMO Medical Centers	73
Total	599	Home Health Care Services	15
		Skilled Nursing Facilities	64
		Office of Dentists	20
		Office of Physicians	35
		Services for the Elderly	11
		Other Health- Related Business	34
		Non-Health- Related Business	85
		Total	599

Source: LFC analysis of HED Data

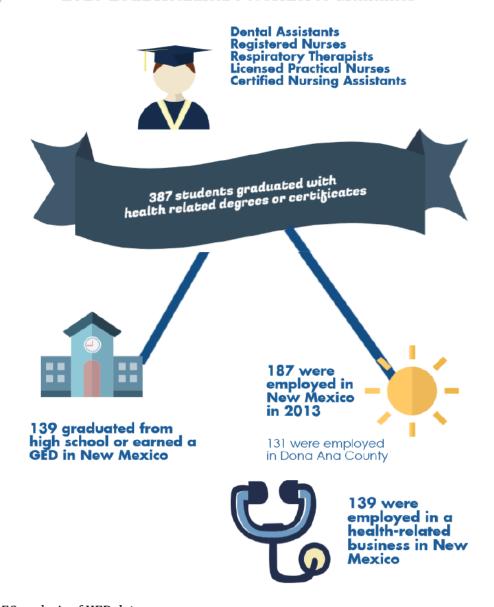
Of the 938 students who graduated from CNM with healthcare workforce-related degrees or certificates between 2009 and 2011:

- 722 had graduated from high school in New Mexico;
- 599 were employed in New Mexico, and 514 were employed in health-related businesses.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce*.

Program Evaluation Unit Legislative Finance Committee May 1, 2015

### New Mexico State University Dona Ana Branch 2010-2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





### New Mexico State University Dona Ana Branch Healthcare Workforce Graduates 2010-2011

High School	
Alama and a High	40
Alamogordo High	10
Gadsden High	30
GED in New Mexico	36
Hatch Valley High	10
Las Cruces High	38
Mayfield High	46
Onate High	45
Santa Teresa High	10
Other New Mexico High School	78
Out of State	84
Total	387

Healthcare Graduates		
Degree Level		
Dental Assisting	22	
Dental Hygiene	24	
Licensed Practical / Vocational Nursing	36	
Medical Radiologic Tech- nology	37	
Nurse Assisting	220	
Registered Nursing	40	
Respiratory Care Ther- apy/Therapist	8	
Total	387	

2013 New Mexico Employment Data			
County		Type of Business	
Bernalillo	28	General Medical and Surgical Hospitals	53
Dona Ana		Home Health Care Services	12
Other New Mexico County	28	Nursing Care Facilities	14
Total	187	Offices of Dentists	16
		Offices of Physicians	14
		Services for the Eld- erly and Persons with Disabilities	11
		Other Health-Related Business	19
		Non-Health-Related Business	48
		Total	187

Source: LFC analysis of HED Data

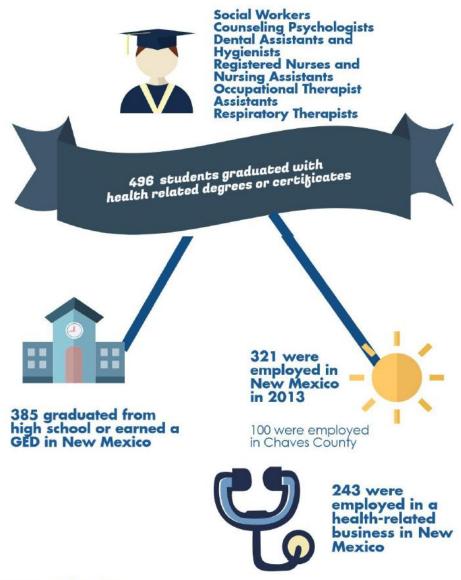
Of the 387 students who graduated from New Mexico State University – Dona Ana with a healthcare workforce-related degrees or certificates between 2010 and 2011:

- 303 graduated from high school or earned GEDs in New Mexico;
- 187 were employed in New Mexico, and 139 were employed in healthrelated businesses in 2013.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce.* 

Program Evaluation Unit Legislative Finance Committee May 1, 2015

## Eastern New Mexico University 2009—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





### Eastern New Mexico University Healthcare Workforce Graduates 2009-2011

High School	
Carlsbad High	10
Clovis High School	16
Dexter High	22
GED in New Mexico	69
Goddard High	44
Roswell High School	72
Ruidoso High	10
University High	14
Other New Mexico High School	128
Out of State or Un- known	111
Total	496

Healthcare Gradu	ıates
Degree	
Clinical/Medical So- cial Work	17
Counseling Psychol- ogy	26
Dental Assisting	*
Dental Hygiene	17
Medical/Clinical Assistant	47
Nurse Assisting	79
Registered Nursing	131
Occupational Thera- pist Assisting	45
Pharmacy Technician	21
Radiologic Technol- ogy	19
Respiratory Care Therapy	21
Social Work	67
Substance Abuse Counseling	*
Total	496

2013 1	New Me	xico Employment Data	
County		Type of Business	
Bernalillo	74	Colleges, Universities, and Professional Schools	12
Chaves	100	Elementary and Secondary Schools	12
Curry	17	General Medical and Surgical Hospitals	58
Eddy	24	HMO Medical Centers	18
Lea	10	Nursing Care Facilities (Skilled Nursing Facilities)	17
Lincoln	13	Offices of Physicians (except Mental Health Specialists)	25
Otero	14	Other Individual and Family Services	12
Roosevelt	17	Outpatient Mental Health and Substance Abuse Centers	12
Other New Mexico County	52	Other Health-Related Businesses	77
Total	321	Non-Health-Related Business	78
		Total	321

Source: LFC analysis of HED Data

Of the 496 students who graduated from Eastern New Mexico University with a healthcare workforce-related degrees or certificates between 2009 and 2011:

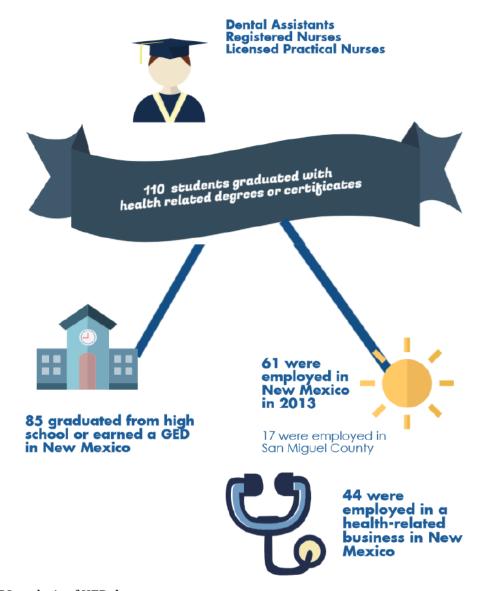
- 385 graduated from high school or earned GEDs in New Mexico;
- 321 were employed in New Mexico, and 243 were employed in health-related businesses in 2013.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, Adequacy of New Mexico's Healthcare Systems Workforce. <a href="http://www.nmlegis.gov/lcs/lfc/lfcprogeval.aspx?Category=Social+Services">http://www.nmlegis.gov/lcs/lfc/lfcprogeval.aspx?Category=Social+Services</a>

<sup>\*</sup> Fewer than 10

Program Evaluation Unit Legislative Finance Committee May 1, 2015

## Luna Community College 2009—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data

**Health Notes** are briefs intended to improve understanding of healthcare finance, policy, and performance in New Mexico.



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### Luna Community College Healthcare Workforce Graduates 2009-2011 Healthcare Workforce Graduates

High School	
Mora High	13
Robertson High	21
West Las Vegas High	32
Other New Mexico High School	19
Out of State	25
Total	110

Healthcare Graduates	
Degree Level	
Dental Assisting	22
Licensed Practical / Vocational Nurse Training (LPN)	69
Registered Nurse	19
Total	110

2013 New Mexico Employment Data			
County		Type of Business	
Bernalillo	12	Nursing Care Facilities	
		Other Health-Related Business	
San Miguel	17		
Other New Mexico		Non-Health-Related Business	
County	32		
Total	61	Total	

Source: LFC analysis of HED Data

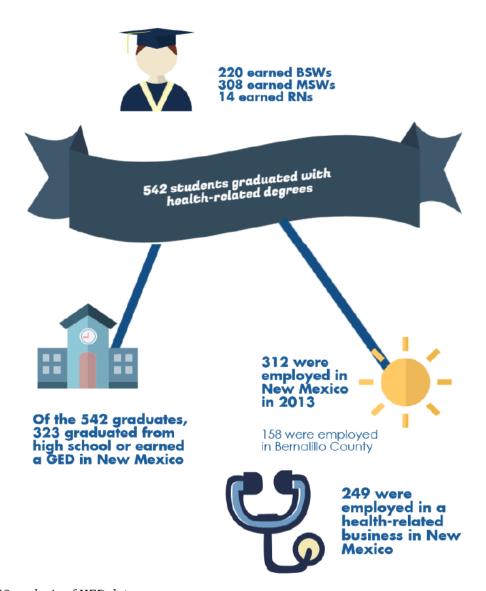
Of the 110 students who graduated from Luna Community College with a healthcare workforce-related degrees or certificates between 2009 and 2011:

- 85 graduated from high school or earned GEDs in New Mexico;
- 61 were employed in New Mexico, and 44 were employed in health-related businesses in 2013.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce*.

Program Evaluation Unit Legislative Finance Committee May 1, 2015

### New Mexico Highlands University Healthcare Graduates 2009—2011



Source: LFC analysis of HED data

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NEW MEXICO LEGISLATIVE FINANCE COMMITTEE

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#### NMHU 2009-2011 Healthcare Workforce Graduates

High School		
GED in New		
Mexico	33	
Rio Rancho High	12	
Robertson High	14	
West Las Vegas High	16	
Other New Mex- ico High School	248	
Out of State or Unknown	219	
Total	542	

Healthcare Graduates			
Degree Leve	el		
Bachelor's Degree in Social Work	220		
Master's Degree in Social Work	308		
Registered Nurses	14		
Total	542		

323

2013	New Mex	tico Employment Data	
	County Type of Business		
Bernalillo	158	Child and Youth Services	18
Quay	10	Elementary and Secondary Schools	<b>2</b> 5
San Juan	26	Offices of Physicians	12
San Miguel	16	Other Individual Family Services	76
Santa Fe	21	Outpatient Mental Health and Substance Abuse Centers	17
Other New Mexico County	81	Services for the Elderly and Persons with Disabilities	10
Total	312	Other Health-Related Businesses	91
		Non-Health-Related Business	63
		Total	312

Source: LFC analysis of HED Data

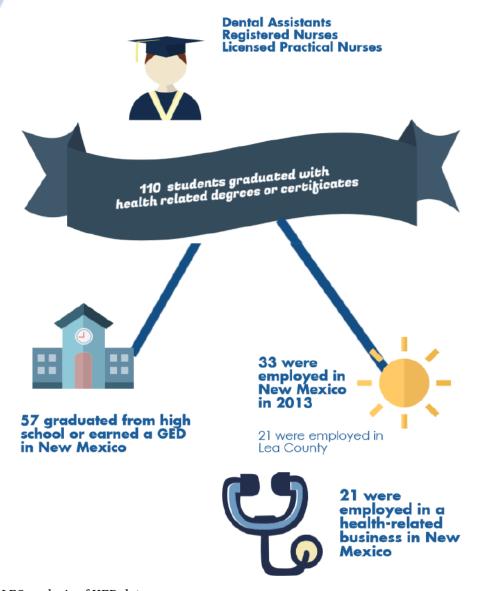
Of the healthcare workforce students who graduated from NMHU between 2009 and 2011:

- 220 earned bachelor's degrees, and 308 earned master's degrees in social work
- 323 graduated from high school or completed a GED in New Mexico;
- 312 were employed in New Mexico, and 249 were employed in health-related businesses in 2013.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce*.

Program Evaluation Unit Legislative Finance Committee May 1, 2015

### New Mexico Junior College 2009—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





### New Mexico Junior College Healthcare Workforce Graduates 2009-2011

High School	
Hobbs High	25
Other New Mexico High School	32
Out of State	21
Total	78

Healthcare Gradua	ites	
Degree Level		
Licensed Practical / Vocational Nurse Training (LPN)	39	
Nursing Assisting	8	
Registered Nursing	31	
Total	78	

0.0000000000000000000000000000000000000	w Mexico Employment Data		
County Type of Busines		S	
L <mark>ea</mark>	21 Health-Related Business	21	
Other New Mexico County	Non-Health-Related Busi- 12 ness	12	
Total	33 Total	33	

Source: LFC analysis of HED Data

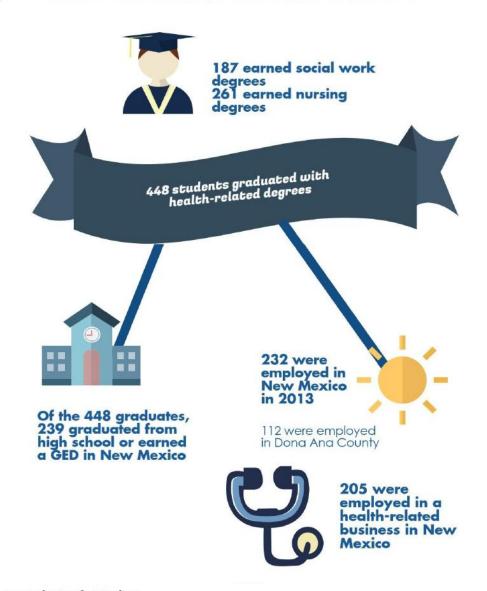
Of the 78 students who graduated from New Mexico Junior College with a healthcare workforce-related degrees or certificates between 2009 and 2011:

- 57 graduated from high school or earned GEDs in New Mexico;
- 33 were employed in New Mexico, and 21 were employed in health-related businesses in 2013.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce*.

Program Evaluation Unit Legislative Finance Committee May 1, 2015

New Mexico State University Main Campus 2010—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





### NMSU 2010-2011 Healthcare Workforce Graduates

High School		
Alamogordo High	19	
Gadsden High	16	
Las Cruces High	24	
Mayfield High	23	
Onate High	21	
Santa Teresa High	11	
Other New Mexico High School	125	
Out of State or Unknown	209	
Total	448	

Healthcare Gradua	ates
Degree Level	
Bachelor's Degree in Social Work	87
Master's Degree in Social Work	100
Bachelor's Degree in Nursing	207
Master's Degree in Nursing	52
Doctorate in Nursing	2
Total	448

2013	New M	lexico Employment Data	
County		Type of Business	
Bernalillo	71	Child and Youth Services	10
Dona Ana	112	Colleges, Universities, and Professional Schools	10
Other New Mexico County	49	General Medical and Surgical Hospitals	78
Total	232	Other Individual and Family Services	30
		Psychiatric and Substance Abuse Hospitals	10
		Other Health-Related Business	67
		Non-Health-Related Business	27
		Total	232

Source: LFC analysis of HED Data

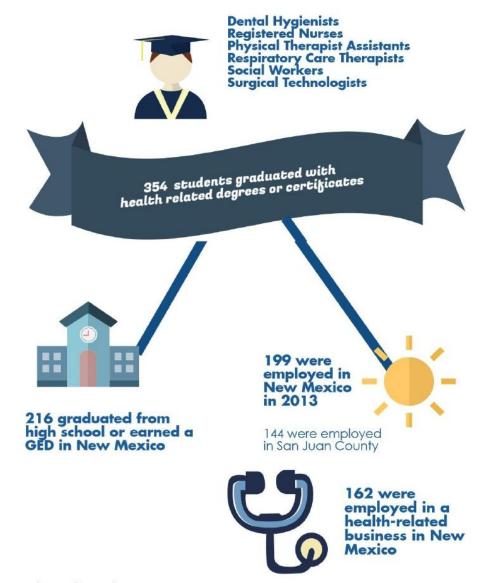
Of the 448 students who graduated from NMSU Main Campus with healthcare workforce-related degrees or certificates between 2010and 2011:

- 187 graduated with social work degrees, and 261 graduated with nursing degrees;
- 239 had graduated from high school in New Mexico;
- 232 were employed in New Mexico, and 205 were employed in healthrelated businesses.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce*.

Program Evaluation Unit Legislative Finance Committee May 1, 2015

### San Juan College 2009—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





#### San Juan College Healthcare Workforce Graduates 2009-2011

High School			
Aztec High	21		
Bloomfield High	22		
Central High	29		
Farmington High	51		
Ged, Other New Mex- ico	27		
Piedra Vista High	19		
Other New Mexico High School	47		
Out of State or Un- known	138		
Total	354		

Healthcare Graduates		
Degree		
Dental Hygiene	35	
Registered Nursing	137	
Physical Therapist Assisting	77	
Respiratory Care Therapy	13	
Social Work	56	
Surgical Technology	36	
Total	354	

2013 New Mexico Employment Data					
County		Type of Business			
Bernalillo	29	General Medical and Surgical Hospitals	85		
San Juan	144	Nursing Care Facilities	13		
Other New Mexico County	26	Offices of Dentists	16		
Total		Offices of Physical, Occupational and Speech Therapists, and Audiologists	11		
		Other Health-Related Business	37		
		Non-Health-Related Business	37		
		Total	199		

Source: LFC analysis of HED Data

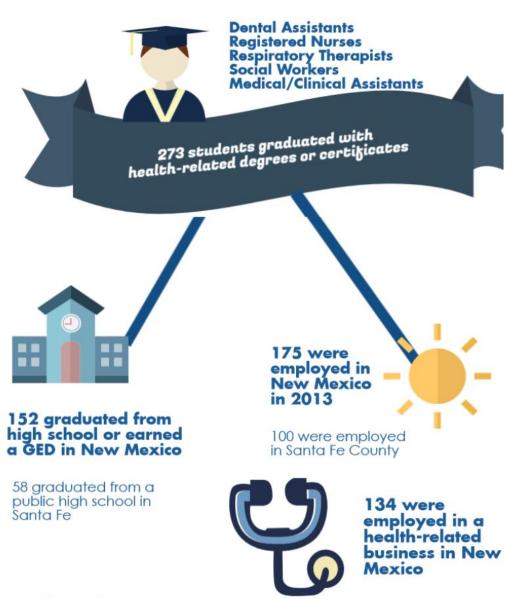
Of the 354 students who graduated from San Juan Community College with a healthcare workforce-related degrees or certificates between 2009 and 2011:

- 216 graduated from high school or earned GEDs in New Mexico;
- 199 were employed in New Mexico, and 162 were employed in health-related businesses in 2013.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce.* 

Program Evaluation Unit Legislative Finance Committee May 1, 2015

### Santa Fe Community College 2009—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





#### Santa Fe Community College 2009- 2011 Workforce Graduates

High School		Graduates		
Capital High	22	Dental Assisting/Assistant	36	
Santa Fe High School	36	Nursing - Registered Nurse Training (RN, ASN, BSN,	162	
Other New Mexico High School	68	Respiratory Care Therapy/ Therapist Certificate	13	
GED in New Mexico	26	Social Work	47	
Out of State	121	Medical/Clinical Assistant Certificate	15	
Total	273	Total	273	

2013 New Mexico Employment Data				
County		Type of Business		
Bernalillo	59	General Medical and Sur- gical Hospitals	77	
Santa Fe	100	Office of Dentist	10	
Other New Mexico County	16	Nursing Care Facilities	11	
Total	175	Office of Physician	14	
		Other Health-Related Business	22	
		Non-health-related busi- ness	41	
		Total	175	

Source: LFC analysis of HED Data

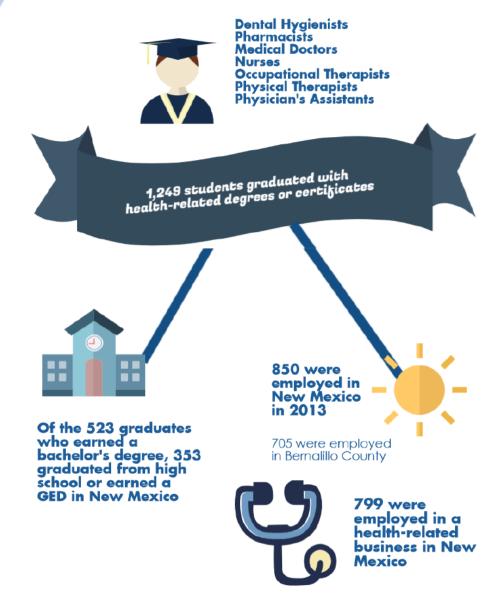
Of the 273 students who graduated from Santa Fe Community College with healthcare workforce-related degrees or certificates between 2009 and 2011:

- all received associate or certificate-level degrees as dental assistants, nurses, respiratory care therapists, medical or clinical assistants, or social workers;
- 152 had graduated from high school in New Mexico;
- 175 were employed in New Mexico, and 134 were employed in health-related businesses.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce.* 

Program Evaluation Unit Legislative Finance Committee May 1, 2015

### University of New Mexico Main Campus 2009—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





#### UNM Main Campus 2009- 2011 Healthcare Workforce Graduates

High School (of Students who ceived Bachelor	Re-	Degre
Dalan Hinh	46	Dechalada 5
Belen High	16	Bachelor's [
Cibola High	14	Doctorate D
Eldorado High	18	Master's De
GED in New Mex- ico	14	Post-Master tificate
La Cueva High	12	Doctorate of cine
Los Lunas High	16	Total
Manzano High	19	
Rio Rancho High	11	
Sandia High	12	
Santa Fe High	11	
Other New Mex- ico High School	210	
Out of State	170	
Total	523	

Graduates				
Degree Level	Major (All Levels)			
Bachelor's Degree	523	Dental Hygiene	81	
Doctorate Degree	8	Medical Pharmacology Sciences	10	
Master's Degree	284	Medical Radio- graphic Technology	24	
Post-Master's Cer- tificate	4	Medicine	154	
Doctorate of Medi- cine	430	Nursing	546	
Total	1249	Occupational Therapy	66	
		Pharmacy	252	
		Physical Therapy	69	
		Physician Assistant	47	
		Total	1249	

2013 New Mexico Employment Data				
County	County Type of Busine			
Bernalillo	705	Colleges, Universities, and Professional Schools	94	
San Juan	10	General Medical and Surgical Hospitals	361	
Santa Fe	24	HMO Medical Centers	53	
Valencia	11	Home Health Care Ser- vices	15	
Other New Mexico County	100	Junior Colleges	23	
Total	850	Nursing Care Facilities (Skilled Nursing Facilities)	24	
		Offices of Dentists	41	
		Offices of Physical, Occu- pational and Speech Therapists, and Audiolo- gists	22	
		Offices of Physicians (except Mental Health Specialists)	29	
		Pharmacies and Drug Stores	82	
		Other Health-Related Businesses	55	
		Non-Health-Related Business	51	
		Total	850	

Source: LFC analysis of HED Data

Of the 1,249 students who graduated from UNM Main Campus with a healthcare workforce-related degrees or certificates between 2009 and 2011:

• 850 were employed in New Mexico, and 799 were employed in health-related businesses in 2013.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce*. <a href="http://www.nmlegis.gov/lcs/lfc/lfcprogeval.aspx?Category=Social+Services">http://www.nmlegis.gov/lcs/lfc/lfcprogeval.aspx?Category=Social+Services</a>

Program Evaluation Unit Legislative Finance Committee May 1, 2015

## Western New Mexico University 2009—2011 Healthcare Workforce Graduates



Source: LFC analysis of HED data





### Western New Mexico University Healthcare Workforce Graduates 2009-2011

High School	
Cobre High	29
Deming High	16
Ged, Other New Mexico	10
Silver High	45
Other New Mexico High School	31
Out of State or Unknown	69
Total	200

Healthcare Gradu	ıates
Degree	
Registered Nursing	72
Occupational Therapy	58
Rehabilitation and Therapeutic Profes- sions, Other	*
Social Work	47
Substance Abuse Counseling	16
Total	200

2013 Ne	w Mexic	o Employment Data	
County		Type of Business	
Bernalillo	16	Elementary and Secondary Schools	10
Grant	66	General Medical and Surgi- cal Hospitals	52
Luna		Nursing Care Facilities (Skilled Nursing Facilities)	11
Other New Mexico County	28	Offices of Physical, Occu- pational and Speech Therapists, and Audiolo- gists	12
Total	120	Other Health-Related Business	28
		Non-Health-Related Busi- ness	-
		Total	120

Source: LFC analysis of HED Data

Of the 200 students who graduated from Western New Mexico University with a healthcare workforce-related degrees or certificates between 2009 and 2011:

- 131 graduated from high school or earned GEDs in New Mexico;
- 120 were employed in New Mexico, and 113 were employed in health-related businesses in 2013.

Data for this LFC Health Note is provided as an addendum to the 2013 program evaluation, *Adequacy of New Mexico's Healthcare Systems Workforce*. <a href="http://www.nmlegis.gov/lcs/lfc/lfcprogeval.aspx?Category=Social+Services">http://www.nmlegis.gov/lcs/lfc/lfcprogeval.aspx?Category=Social+Services</a>