



South Dakota Board of Technical Education

To: South Dakota Board of Technical Education
From: Nick Wendell, Executive Director, Board of Technical Education
Date: 5/20/21
Re: UpSkill 2.0

In April 2020, the Office of the Governor received discretionary funding from the federal CARES Act. These dollars were to be allocated by the Governor as education stabilization funds to support initiatives related to COVID-19 and its impact on South Dakota.

The Board of Technical Education (BOTE), in collaboration with South Dakota's four technical colleges and the Department of Labor and Regulation (DLR), requested and received support to develop a dynamic new effort called **UpSkill**. **UpSkill** is a program designed to encourage "dislocated" South Dakota workers to pursue post-secondary credentials. In the first year of the program, the four technical colleges developed and online-only certificates. These certificates aligned with high-demand fields and enhanced opportunities for employment and/or continued education.

A second round of federal funding (with extended deadlines for spending) has created an opportunity to continue the **UpSkill** program in academic year 2021-2022. We intend to extend the certificate program with some adjustments.

The parameters of the program are outlined below.

Target Audience

Workers who have filed for reemployment assistance through the DLR and are deemed "dislocated," thus making them eligible for tuition assistance through the Workforce Innovation and Opportunity Act (WIOA).

Certificates

The four technical colleges have developed several primarily 16 to 18 credit, certificate programs. Deliver will vary and include online-only, in-person, and hybrid methods. All certificates were built using existing academic programs/curriculum and will be approved by the Higher Learning Commission and the Board of Technical Education. The certificates will be added to the Eligible Training Provider list (ETPL), in partnership with the DLR.

The proposed certificates are in a variety of academic program areas, including:

- Business
- Communications
- Healthcare
- Information Technology
- Precision Machining

Timeline

The enrollment period will begin in early-summer, with course instruction beginning in August 2021. Students can expect to earn their certificates by May 2022.

Cost Structure

UpSkill students will pay \$240 per credit. The federal education stabilization funds will support tuition and other associated costs for students. WIOA funds are also be available to support additional services.

Additional Funding

A portion of the allocation will support marketing and administrative costs associated with implementing the program.

UpSkill Project Proposed Training Programs and Related Occupational Labor Market Data

Program Information									Labor Market Data on Related Occupations						
Institution	Career Cluster	Certificate Name	CIP Code/ SOC Codes of Matching Occupation(s)	CIP Title/SOC Title(s) of Matching Occupation(s)	Delivery Method	Number of Credits	Articulation	2018 Employment	2028 Employment	Numeric Change 2018-2028	Percent Change 2018-2028	Annual Openings Projected	Annual Average Wage 2020	Current Job Openings (05-03-21)	Active Candidates (05-03-21)
MTC	Agriculture, Food & Natural Resources	Dietary Management	51.3103	Dietetic Technician	Online	18	Culinary Academy								
		Related Occupation(s):	29-2051	Dietetic Technicians				n/a	n/a	n/a	n/a	n/a	n/a	17	1
MTC	Health Science	Medical Information	51.0707	Medical Records Technology	Online or hybrid	18	Medical Programs								
		Related Occupation(s):	29-2071	Medical Records and Health Information Technicians				1,052	1,148	96	9.1%	80	\$44,714	18	6
MTC	Transportation, Distribution & Logistics	Professional Truck Driving	49.0205	Truck/Commercial Vehicle Operation	Hybrid	18	Natural Gas								
		Related Occupation(s):	25-1194	Vocational Education Teachers, Postsecondary				281	307	26	9.3%	28	\$59,959	2	1
			53-3021	Bus Drivers, Transit and Intercity				431	484	53	12.3%	63	\$31,795	16	3
			53-3022	Bus Drivers, School or Special Client				1,210	1,252	42	3.5%	160	\$30,410	27	2
			53-3032	Heavy and Tractor-Trailer Truck Drivers				8,645	9,399	754	8.7%	1,100	\$46,232	331	29
			53-3033	Light Truck or Delivery Services Drivers				3,387	3,777	390	11.5%	447	\$36,996	93	14

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WDT	Health Science	EMT / Pre-Paramedic	51.0810	Emergency Care Attendant (EMT Ambulance)	In-person, Hybrid	18	Articulates into Paramedic AAS								
		Related Occupation(s):	53-3011*	Ambulance Drivers and Attendants, Except Emergency Medical Technicians				n/a	n/a	n/a	n/a	n/a	\$25,952	4	2
WDT	Health Science	Phlebotomy	51.1099	Clinical / Medical Laboratory Science & Allied Professions, Other	In-person, Hybrid	18	Articulates into Medical Lab Tech AAS								
		Related Occupation(s):	29-2011	Medical and Clinical Laboratory Technologists				n/a	n/a	n/a	n/a	n/a	n/a	55	1
			29-2012	Medical and Clinical Laboratory Technicians				n/a	n/a	n/a	n/a	n/a	n/a	47	2
WDT	Architecture & Construction	Plumbing	46.0503	Plumbing Technology / Plumber	In-person, Hybrid	18	Articulates into Plumbing Diploma								
		Related Occupation(s):	47-1011	Supervisors of Construction and Extraction Workers				1,448	1,572	124	8.6%	169	\$67,601	18	3
			47-2152	Plumbers, Pipefitters, and Steamfitters				1,684	1,896	212	12.6%	219	\$45,333	31	5
			47-4071	Septic Tank Servicers and Sewer Pipe Cleaners				102	116	14	13.7%	13	\$39,609	1	0

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LATC	Finance	Accounting	52.0302	Accounting Technology/Technician and Bookkeeping	Campus, Online	18	Financial Services, Associate of Applied Science								
		Related Occupation(s):	11-3051	Industrial Production Managers				443	494	51	11.5%	39	\$106,551	5	2
			11-3071	Transportation, Storage, and Distribution Managers				215	234	19	8.8%	20	\$94,131	8	4
			25-1011	Business Teachers, Postsecondary				274	322	48	17.5%	30	\$74,195	2	2
LATC	Agriculture	Agriculture	01.0101	Agricultural Business and Management, General	Campus, Online	18	Agriculture, Associate of Applied Science, Finance (Various), Bachelor of Science								
		Related Occupation(s):	11-9013	Farmers, Ranchers, and Other Agricultural Managers				n/a	n/a	n/a	n/a	n/a	n/a	3	5
			25-1041	Agricultural Sciences Teachers, Postsecondary				81	86	5	6.2%	7	n/a	0	0
LATC	Finance	Banking	52.0803	Banking and Financial Support Services	Campus, Online	18	Financial Services, Associate of Applied Science, Finance (Various), Bachelor of Science								
		Related Occupation(s):	13-2071	Credit Counselors				39	40	1	2.6%	3	\$41,048	0	0
			43-3011	Bill and Account Collectors				2,658	2,349	-309	-11.6%	268	\$34,248	26	9
			43-3071	Tellers				2,135	2,058	-77	-3.6%	245	\$30,226	67	10
			43-4041	Credit Authorizers, Checkers, and Clerks				166	168	2	1.2%	16	\$35,156	0	0
			43-4131	Loan Interviewers and Clerks				2,001	2,282	281	14.0%	245	\$39,104	19	0
			43-4141	New Accounts Clerks				n/a	n/a	n/a	n/a	n/a	\$37,631	22	1

UpSkill Project Proposed Training Programs and Related Occupational Labor Market Data

Program Information		Labor Market Data on Related Occupations															
LATC	Health Science	Community Health Worker*	51.1504	Community Health Services/Liaison/Counseling	Campus, Online (with Inter	17	Community Health Worker, Diploma; Community Health Worker, Associate of Applied Science										
		Related Occupation(s):	21-1091	Health Educators				183	196	13	7.1%	22	\$50,455	1	2		
			21-1094	Community Health Workers				n/a	n/a	n/a	n/a	n/a	\$40,791	0	0		
LATC	Health Science	Emergency Medical Technician (EMT)	51.0810	Emergency Care Attendant (EMT Ambulance)	Campus, Hybrid	18	EMT Certification, Paramedic, Diploma										
		Related Occupation(s):	29-2041	Emergency Medical Technicians and Paramedics				1,022	1,104	82	8.0%	79	\$33,114	36	0		
LATC	Business	Human Resources	52.1001	Human Resources Management/Personnel Administration, General	Campus, Online	18	Business, Associate of Applied Science, Business (Various), Bachelor of Science										
		Related Occupation(s):	11-3111	Compensation and Benefits Managers				n/a	n/a	n/a	n/a	n/a	\$139,063	6	0		
			11-3121	Human Resources Managers				255	281	26	10.2%	26	\$99,772	32	7		
			11-3131	Training and Development Managers				n/a	n/a	n/a	n/a	n/a	\$98,841	4	5		
			13-1071	Human Resources Specialists				1,051	1,129	78	7.4%	117	\$57,112	62	7		
			13-1075	Labor Relations Specialists				n/a	n/a	n/a	n/a	n/a	n/a	4	0		
			13-1141	Compensation, Benefits, and Job Analysis Specialists				696	763	67	9.6%	76	\$54,877	11	1		
			13-1151	Training and Development Specialists				508	563	55	10.8%	64	\$53,466	4	3		
			25-1011	Business Teachers, Postsecondary				274	322	48	17.5%	30	\$74,195	2	2		
LATC	Manufacturing	Manufacturing	15.0613	Manufacturing Technology/Technician	Campus, Hybrid	17	Electronics, Associate of Applied Science; Robotics, Associates of Applied Science										
		Related Occupation(s):	17-3026	Industrial Engineering Technicians				156	170	14	9.0%	16	\$45,596	2	2		
LATC	Information Tech	Networking**	11.0901	Computer Systems Networking and Telecommunications	Campus, Hybrid	18	Computer Information Systems, Associate of Applied Science; Computer Science (Various), Bachelor of Science										
		Related Occupation(s):	15-1121	Computer Systems Analysts				803	897	94	11.7%	70	\$78,777	20	8		
			15-1122	Information Security Analysts				253	342	89	35.2%	30	\$95,559	7	3		
			15-1143	Computer Network Architects				422	487	65	15.4%	38	\$113,079	3	1		
			15-1152	Computer Network Support Specialists				779	853	74	9.5%	74	\$49,810	11	9		
LATC	Manufacturing	Precision Machining	48.0503	Machine Shop Technology/Assistant	Campus, Hybrid	17.5	Precision Machining, Associate of Applied Science; Applied Technology Management or Operations Management, Bachelor of Science										
		Related Occupation(s):	51-2041	Structural Metal Fabricators and Fitters				277	262	-15	-5.4%	26	\$36,556	8	5		
			51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic				421	426	5	1.2%	43	\$40,539	29	6		
			51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic				162	165	3	1.9%	19	\$36,150	0	1		
			51-4041	Machinists				936	1,067	131	14.0%	114	\$41,586	25	2		
			51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic				330	363	33	10.0%	39	\$46,431	1	0		
			51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic				n/a	n/a	n/a	n/a	n/a	\$46,762	1	0		
			51-4192	Layout Workers, Metal and Plastic				n/a	n/a	n/a	n/a	n/a	n/a	0	0		
			51-4194	Tool Grinders, Filers, and Sharpeners				48	51	3	6.3%	8	\$36,962	0	0		
			51-4199	Metal Workers and Plastic Workers, All Other				n/a	n/a	n/a	n/a	n/a	n/a	1	0		
LATC	Information Tech	Programming	11.0201	Computer Programming/Programmer, General	Campus, Hybrid	18	Computer Information Systems, Associate of Applied Science; Computer Science (Various), Bachelor of Science										
		Related Occupation(s):	15-1131	Computer Programmers				604	572	-32	-5.3%	38	\$58,249	30	7		
			15-1132	Software Developers, Applications				1,041	1,300	259	24.9%	108	\$78,536	29	7		
			15-1133	Software Developers, Systems Software				678	797	119	17.6%	64	\$78,536	19	3		
			15-1134	Web Developers				460	523	63	13.7%	43	\$54,999	4	1		
			15-1152	Computer Network Support Specialists				779	853	74	9.5%	74	\$49,810	11	9		
			25-1021	Computer Science Teachers, Postsecondary				159	175	16	10.1%	16	\$83,452	2	0		

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LATC	Manufacturing	Welding	48.0508	Welding Technology/Welder	Campus	16	Welding, Diploma; Welding, Associate of Applied Science										
Related Occupation(s):			51-4121	Welders, Cutters, Solderers, and Brazers			3,321	3,758	437	13.2%	432	\$40,874	112	65			
Related Occupation(s):			51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders			460	475	15	3.3%	53	\$44,684	9	12			

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			31-9092	Medical Assistants				961	1,122	161	16.8%	131	\$31,910	53	4
			29-2071	Medical Records and Health Information Technicians				1,052	1,148	96	9.1%	80	\$44,714	18	6
Southeast Tech	Information Technology	Computer Support	11.9999	CIS/Computer Technician	100% Online/Hybrid	15	Diploma in Computer Tech - AAS in Network Admin, System Admin and Information Technology Security								
Related Occupation(s):			No related occupations in CIP to SOC crosswalk.												
Southeast Tech	Information Technology	Web Programming	11.0201	Computer Programming	100% Online	16	Diploma in Software Support - AAS in Computer Programming								
Related Occupation(s):			15-1131	Computer Programmers				604	572	-32	-5.3%	38	\$58,249	30	7
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Related Occupation(s):			25-1021	Computer Science Teachers, Postsecondary				159	175	16	10.1%	16	\$83,452	2	0

Sources:

Program information provided by South Dakota Board of Technical Education.

Classification of Instructional Programs (CIP) matched to Standard Occupational Classification (SOC) codes by the Labor Market Information Center, South Dakota Department of Labor and Regulation, using the national crosswalk unless otherwise noted.

*CIP code does not exist in crosswalk, or there were no related occupations indicated in the crosswalk; occupations matched manually.

Labor Market Data on Related Occupations provided by the Labor Market Information Center, South Dakota Department of Labor and Regulation, May 2021.