

CTE HARD TO CONVERT RECOMMENDATIONS NEXT STEPS



LAOCRC HARD-TO-CONVERT RECOMMENDATIONS NEXT STEPS PANEL DISCUSSION









Dr. Adriene "Alex" Davis

Assistant Vice Chancellor,

EWD/Educational Services, RSCCD

LAOCRC Executive Director

Mr. Mike Murphy Founder, BrandlQ

Dr. Gustavo ChamorroLAOCRC – OC Director

Dr. Audrey ChildersLAOCRC – LA Director



LAOCRC HARD-TO-CONVERT CTE PROGRAMS

TOP CODES & CAREER TECHNICAL EDUCATION PROGRAMS

093400 - ELECTRONICS AND ELECTRIC TECHNOLOGY LabVIEW, Multisim, Altera	122500 - RADIOLOGIC TECHNOLOGY Labster & Visible Body
094800 - AUTOMOTIVE TECHNOLOGY Automotive Service Excellence (ASE), Cengage's MindTap, Electude & zSpace	123010 - REGISTERED NURSING Laerdal's vSim, zSpace, iHuman, & Visible Body
095220 — ELECTRICAL Festo & Interplay Skilled Trades	125000 - EMERGENCY MEDICAL SERVICES FISDAP, Zero Hour America's Medic, & 60 Seconds to Survival Disaster Triage.
095600 - MANUFACTURING AND INDUSTRIAL TECHNOLOGY Labster, JoVE, LabArchives, Immerse2Learn, NCSIMUL, ToolingU, & zSpace.	130630 - CULINARY ARTS Shipt, FreshDirect, & Instacart
095650 - WELDING TECHNOLOGY Lincoln Electric & zSpace	213300 - FIRE TECHNOLOGY National Fire Protection Association
121000 - RESPIRATORY CARE/THERAPY iCEV, Kettering National Seminars, & Visible Body	300700 - COSMETOLOGY AND BARBERING MindTap, Zoom, & Today's Class Cosmetology

LAOCRC CTE HARD TO CONVERT SIX RECOMMENDATIONS



Consider Curriculum
Portability and Shared
Course Content Access for
Faculty

Develop a Formal Feedback
Loop among Faculty,
Students and Employers to
Foster more Robust
Communication and Skill
Development

Modify Faculty Workload and Remote Working Expectations Within Career Education Disciplines to Achieve Synergies and Leverage Faculty Strengths

CTE
HARD-TO-CONVERT
RECOMMENDATIONS

Ensure Faculty and Staff have Access to Appropriate WBL Professional Development

Engage Regional Directors of
Employer Engagement to
Virtually Convene Faculty by
Priority Sector Regionally on a
Regular Basis

Expand Use of Virtual Reality and Augmented Reality (VR/AR) Technology

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Consider Curriculum Portability and Shared Course Content Access for Faculty



Modify Faculty Workload and Remote Working Expectations Within Career Education Disciplines to Achieve Synergies and Leverage Faculty Strengths



Engage Regional Directors of Employer Engagement to Virtually Convene Faculty by **Priority Sector Regionally on a** Regular Basis



Vertical Sector Lead framework

Identify needs within a specific sector and provide resources

- Research conducted by a college lead in collaboration with Regional Director
- An effective way to leverage resources
- Common curriculum and equipment

Sectors

- Advanced Manufacturing
- Advanced Transportation & Logistics
- Biotech
- Business
- Global Trade
- Health
- Retail, Hospitality & Tourism



Expand Use of Virtual Reality and Augmented Reality (VR/AR) Technology



Ensure Faculty and Staff have Access to Appropriate Work-Based Learning Professional Development



Develop a Formal Feedback Loop among Faculty, Students and Employers to Foster more **Robust Communication and** Skill Development



Faculty Leaders, Chairs, and Senate Presidents LA/OC Faculty Resource and Career Education Innovation HUB Steering Committee

Name	Discipline	LAOCRC Community College
Sal Veas	Business	Santa Monica College
Lance Heard	Administration of Justice	Mt. San Antonio College
Khai Lu	Computer Information Systems	El Camino College
Monica Thurston	Allied Health	East Los Angeles College
Roger Dickes	Visual & Performing Arts	Glendale Community College
Artemio Navarro	Mechanical Engineering	Los Angeles Trade-Technical College
Elisa Meyer	English	Santa Monica College
Sarah Barker	Audio & Video Production	Pasadena City College
Charlene Brewer-Smith	Cosmetology	El Camino College



Faculty Leaders, Chairs, and Senate Presidents LA/OC Faculty Resource and Career Education Innovation HUB Faculty Participants

Name	Discipline	LAOCRC Community College
Kristina Allende	English	Mt. San Antonio College
Jeremy Clark	Automotive Technology	Citrus College
Ed Matykiewicz	Automotive Technology	El Camino College
Tracy Harkins	Health & Kinesiology	Los Angeles Mission College
Leslie Howard	Health Science	East Los Angeles College
Leticia Barajas	Career Education & Workforce	East Los Angeles College
Dorothy Hendrix	Health Science	East Los Angeles College
Velveth Klee	Physics	Los Angeles Trade-Technical College
Andrew Maz	Music	Cerritos
Lisa Amos	Family Consumer Sciences	Mt. San Antonio College
Steven Sedky	Business	Santa Monica College
Evangelina Rosales	Career Education	Compton College
Haley Nguyen	Culinary Arts	Long Beach City College



Faculty Planning & Development Facilitated by BrandlQ





Strong Workforce Project created by faculty, for faculty providing a 'space' for:

Regional acceleration of the delivery of career education programs and faculty professional development

CE/GE cross-college/cross-discipline collaboration, sharing best practices and innovations for "at-scale" curriculum projects (like Amazon Web Services-AWS)

in 'co-creation' with Los Angeles regional industry partners



Hub Organizing Principals

- Collective Impact
 - Collaborative Action Networks (CAN's)
- High Action and Core Indicator Results
- CANs Alignment
- Results-Based Frame



Faculty Resource and Career Education Innovation HUB

Steering Committee

Planning 2-3 years, Governance

BrandIQ Capacity

Working Group CAN 1

Non-Credit to Credit CNA/Allied Health Career Ladders Template

Working Group CAN 2

Embed Equity

Working Group CAN 3

Faculty Professional Development Badge System

Working Group CAN 4

Creating a Virtual
Innovation Space Cross
College/Cross Discipline
Hard-to-Convert Priority
Sector

Working Group CAN 5

Guided Pathways Impact Accelerator

BrandIQ Capacity Other Projects Identify + Assess new funding sources/sustainability

Initial 'innovation design thinking' & 'results-based action framework Development and Training
Hub Innovators (2x)

Stakeholder Engagement platform for
Virtual Hub
innovation
Identify 2 pilots,
purchase
winner and deploy

Collaboration

Develop regional data analysis for tracking data

Regional data and living wage data Hub 2.5 days
Planning
Convenings

2x Summer/Winter



HARD TO CONVERT CTE PROGRAM RESEARCH

6 RECOMMENDATIONS



- CONSIDER CURRICULUM PORTABILITY AND WIDESPREAD COURSE CONTENT ACCESS FOR FACULTY. WE HIRE WELL AND
 OUR FACULTY ARE AMAZING, BUT THEY ARE ALSO HUMAN BEINGS; THUS, SOME OF THEIR INDIVIDUAL LECTURES AND
 COURSE CONTENT ARE FAR BETTER THAN OTHERS. CREATE A CONTENT DELIVERY CLEARINGHOUSE FOR REGIONAL
 FACULTY TO SUBMIT/SHARE THEIR BEST RECORDED LECTURES FOR FACULTY IN THE SAME DISCIPLINES TO DROP INTO THEIR
 CANVAS SHELL.
- 2. REDEFINE THE FACULTY WORKLOAD AND REMOTE WORKING EXPECTATIONS WITHIN CE DISCIPLINES TO ACHIEVE SYNERGIES AND LEVERAGE FACULTY STRENGTHS. WORK WITH LOCAL UNIONS TO PERMIT A FLEXIBLE STRUCTURE (AT LEAST AS A TEMPORARILY MEASURE) WHERE SOME FACULTY DELIVER THE PREPONDERANCE OF LECTURES, AND OTHER FOCUS ON HANDS-ON SKILL VERIFICATION AND EMPLOYER ENGAGEMENT.
- 3. RETURN TO THE BASICS AND DIRECT THE REGIONAL DIRECTORS TO VIRTUALLY CONVENE FACULTY BY PRIORITY SECTOR REGIONALLY ON A REGULAR BASIS. CREATE AN INFORMAL SPACE FOR THEM TO COLLABORATE AND AGREE ON THE ADOPTION OF SOFTWARE AND SIMULATION TECHNOLOGIES, PLAN FOR CURRICULUM PORTABILITY, AND CULL CUSTOMIZED KITS TO MEET ALL OF PART OF THE HANDS-ON LAB EXPERIENCE FOR STUDENTS AMONG ALL CE PROGRAMS WITHIN THE CONSORTIUM. AS ORANGE COUNTY HAS DONE, ADOPT "VERTICAL SECTOR LEADS" FOR PROGRAMS WHERE A REGIONAL DIRECTOR DOES NOT EXIST.

RECOMMENDATIONS



- 4. INCENTIVIZE THE EXPANDED USE OF VIRTUAL REALITY AND AUGMENTED REALITY (VR/AR) TECHNOLOGY. WHEN FEASIBLE, PARTNER WITH INDUSTRY LEADERS TO SHAPE THE DEVELOPMENT OF THEIR TOOLS AND CONNECT WITH OTHER POSTSECONDARY INSTITUTIONS THROUGHOUT THE NATION THAT HAVE SUCCESSFULLY INTEGRATED THIS EMERGING TECHNOLOGY.
- 5. Ensure faculty and staff have access to appropriate WBL professional development. Expand work-based learning opportunities as a viable way of offering students the hands-on lab practicum that can otherwise only occur on a college campus; proactively engage with local CE Advisory Committees to facilitate skill verification and to validate program quality.
- 6. DEVELOP A FORMAL FEEDBACK LOOP AMONG FACULTY, STUDENTS AND EMPLOYERS TO FOSTER MORE ROBUST COMMUNICATION AND SKILL DEVELOPMENT. USING THE PROGRAM SNAPSHOTS PROVIDED IN THIS REPORT, CREATE RELEVANT WORKING GROUPS TO NARROW PROSPECTIVE VENDORS AND FACILITATE THE INTEGRATION OF SUPPORTIVE TECHNOLOGY INTO EXISTING PROGRAMS AND ENSURE ONGOING QUALITY CONTROL. ADOPT LABSTER, ZSPACE, AND PROGRAM-SPECTIC PLATEORMS.

1st Regional "Discipline Specific" CAN

- EXAMPLE: A discipline-specific working group could act on recent research to develop solution(s) for Hard-to-Convert areas of studies / labs, such as Automotive Tech
- Examine Best Practices In CE Online Learning: Ashworth College,
 GA and George Brown College, Toronto
- Automotive Tech Working Group could also create a regional 'atscale' new program in a similar fashion to Allied Health, AND regional acceleration of successful local CE initiatives like an innovative program championed by LATTC during a past faculty retreat

"AUTOMOTIVE TECHNOLOGY—THIS PROGRAM LENDS ITSELF WELL TO ONLINE ADAPTION, AND SEVERAL ESTABLISHED RESOURCES EXIST FOR SOFTWARE AND SIMULATION THAT TEACH TO INDUSTRY STANDARDS. AUTOMOTIVE SERVICE EXCELLENCE (ASE) OFFERS AN ONLINE PROGRAM, AND SEVERAL LA | OC COLLEGES ARE USING CENGAGE'S MINDTAP WHICH ALLOWS FACULTY TO CONTROL ALL ASPECTS OF THEIR VIRTUAL INSTRUCTION. ADOPT ELECTUDE & ZSPACE."



Main Criteria to CTE Hard-To-Convert Online Adaptation

CALIFORNIA COMMUNITY COLLEGES





Main Criteria

CTE Hard-to-Convert Online Adaptation

Legal and Licensing Requirements

Programs with direct patient care due to legal and licensing requirements

Skills Verification Requirements

Programs that require demonstration of highly refined skills

Occupational Supply & Demand

Programs that have high demand for completers

Heavy Machinery and Equipment Requirements

Programs that require the use of heavy machinery/equipment or specialized personal protective equipment

Top Code CTE Hard-to-Convert Alignment to Labor Market Information (LMI)

CALIFORNIA COMMUNITY COLLEGES

LAOC RC

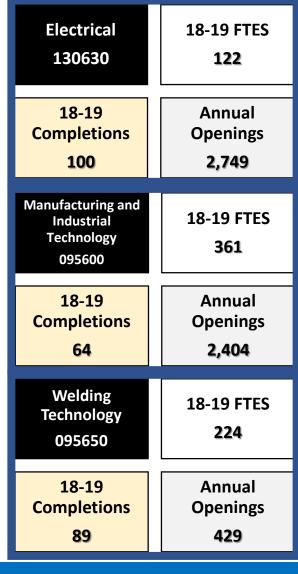
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CTE Hard-to-Convert Top Code COE LA19 LMI Across Credit/Noncredit

Automotive	18-19 FTES
094800	796
18-19	Annual
Completions	Openings
606	763
Electronics & Electrical Technology 093400	18-19 FTES 111
18-19	Annual
Completions	Openings
127	340
Radiologic Technology 122500	18-19 FTES 415
18-19	Annual
Completions	Openings
99	114

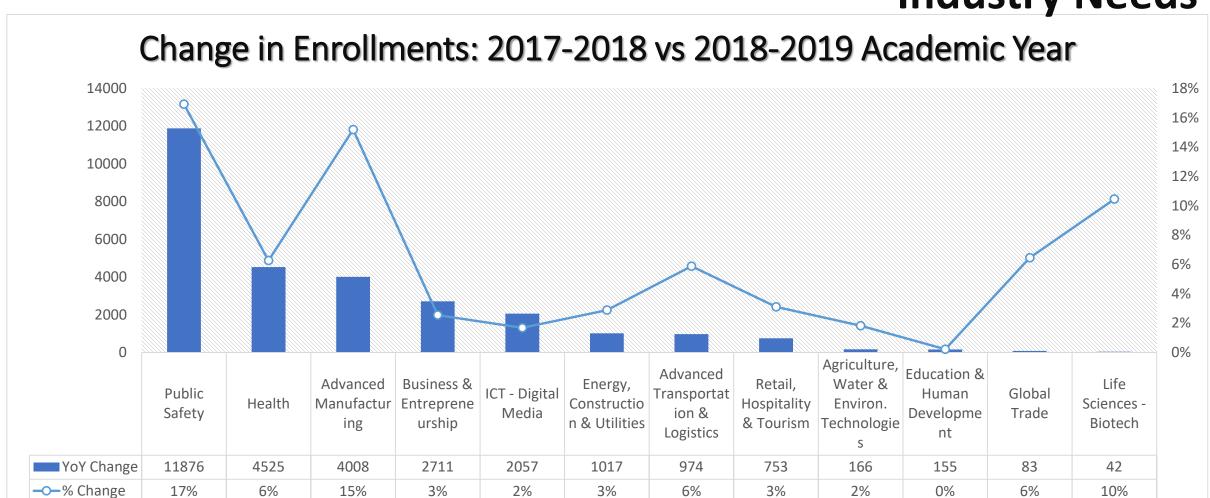
Cosmetology and Barbering 300700	18-19 FTES 2,007
18-19 Completions 510	Annual Openings 2,460
Emergency Medical Services 125000	18-19 FTES 308
18-19 Completions 188	Annual Openings 167
Respiratory Care/Therapy 121000	18-19 FTES 53
18-19 Completions 12	Annual Openings 118

Culinary Arts	18-19 FTES
130630	351
18-19	Annual
Completions	Openings
296	2,185
Fire Technology	18-19 FTES
213300	1,199
18-19	Annual
Completions	Openings
524	144
Registered Nursing 123010	18-19 FTES 1,125
18-19	Annual
Completions	Openings
478	1,796





Using Enrollment Data to Assess Student Demand Alignment to Industry Needs





NEXT STEPS

BrandlQ



RECOMMENDATIONS NEXT STEPS

- Prioritize Implementation of Hard-To-Convert Recommendations
- Finalize Strong Workforce Program Regional Investments
- Finalize Composition of Hard-To-Convert Stakeholder Groups
- Expand CAN membership and College Participation
- Convene Faculty in Hard-To-Convert Career Education (2-3) Priority Sectors
- Identify regional Industry partners leveraging advisory council relationships when appropriate
- Schedule Webinars Statewide Dissemination and Feedback
 - Design student input loop framework



CTE Hard-To-Convert Inquiries, Contact: davis_adriene@rsccd.edu