

KANSAS BOARD OF REGENTS



Career Technical Education Program Alignment

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★ LEADING HIGHER EDUCATION ★



Why Program Alignment?



“Individual colleges are
doing their “own thing”
– we need a state
standard.”

HVAC technician

What We Heard
“Loud & Clear”
from Business





“We need a way to
evaluate students with
an industry standard.”

Welder

What We Heard
“Loud & Clear”
from Business





“Our company needs a credential so we at least know what we are getting when we hire.”
Electrician

What We Heard
“Loud & Clear”
from Business





Program Variability...

Automotive Technology

Program Name	Credit Hours for Technical Certificate	# of Sem	Hours for Associate Degree
Automotive Technology	55	4	70
Auto Mechanics Technology	32	2	64
Auto Engine	18	1	N/A
Automotive Technology	37/59	2	77
Automotive Service Technology	57	3	N/A



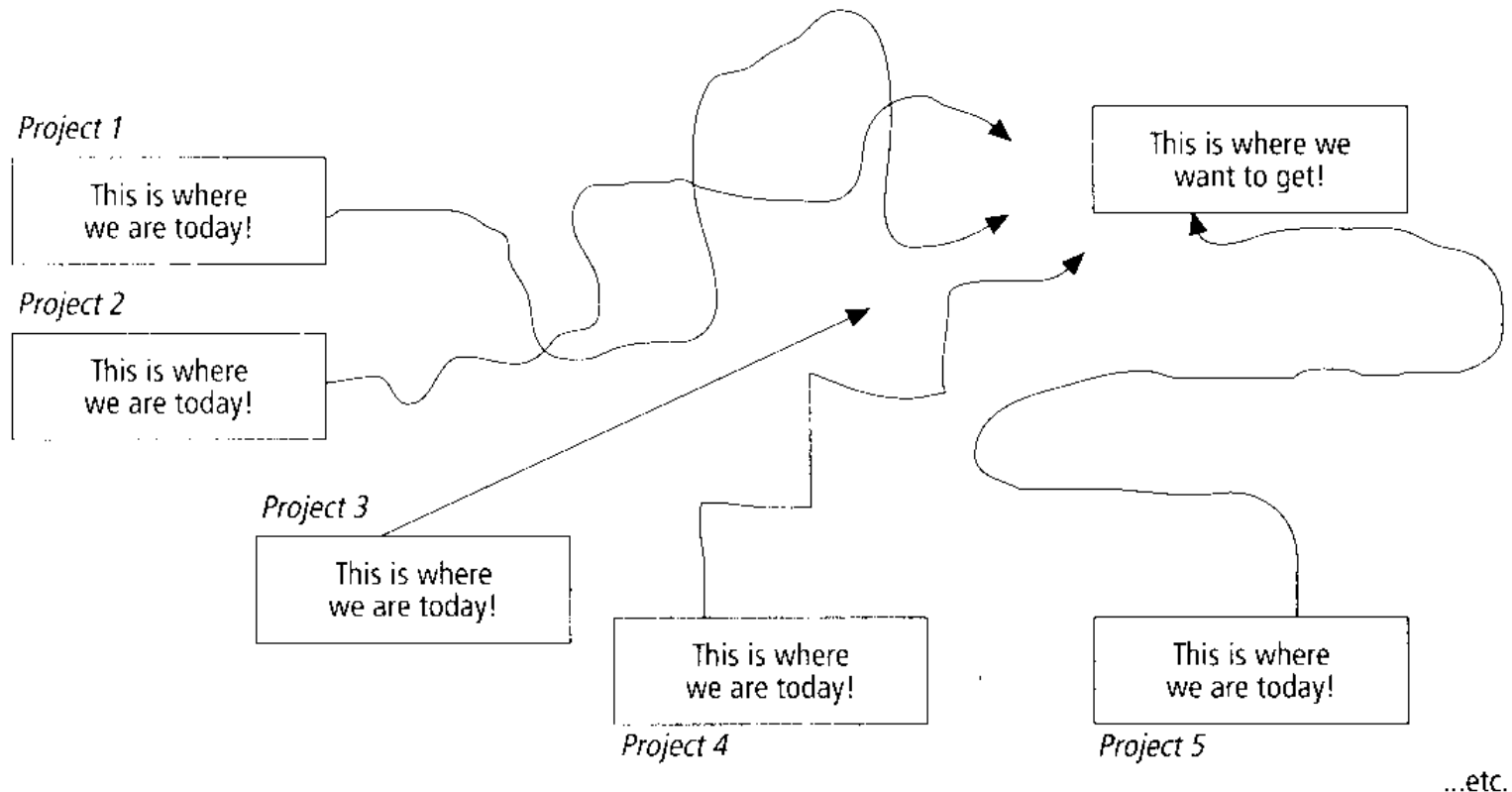
Program Variability...

Welding

Program Name	Credit Hours for Technical Certificate	# of Sem	Hours for Associate Degree
Welding Technology	46	4	64
Welding Technology	30	2	64
Welding	18	1	N/A
Welding	48	2	N/A
Welding	33	2	N/A

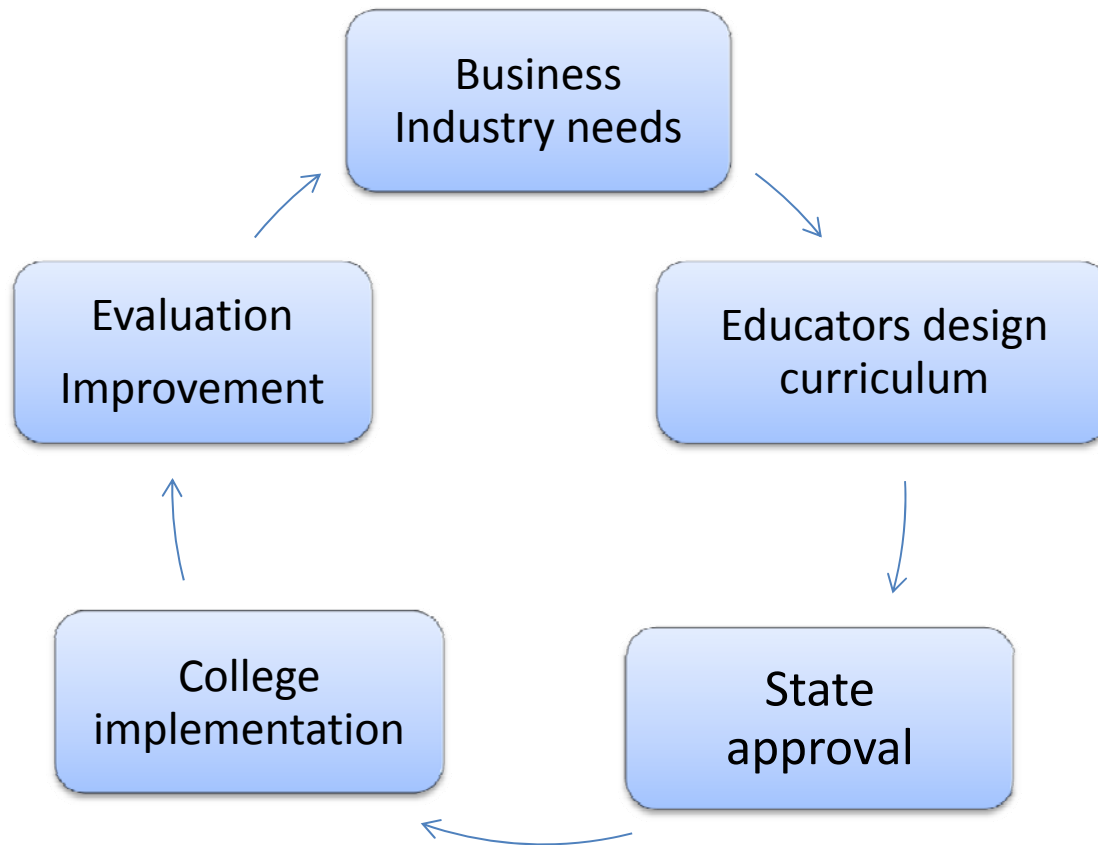


Where Do We Start?





Program Alignment Process



Kansas Postsecondary Technical Education Authority approved model



Program Alignment Tenets

- ★ Industry-Recognized Credentials
- ★ Common Courses
- ★ Common Length
- ★ Value-added Exit Points



Business Driven

- ★ Select Industry-Recognized Credential(s)
- ★ Determine Exit Points which Offer Value to Employers/Graduates

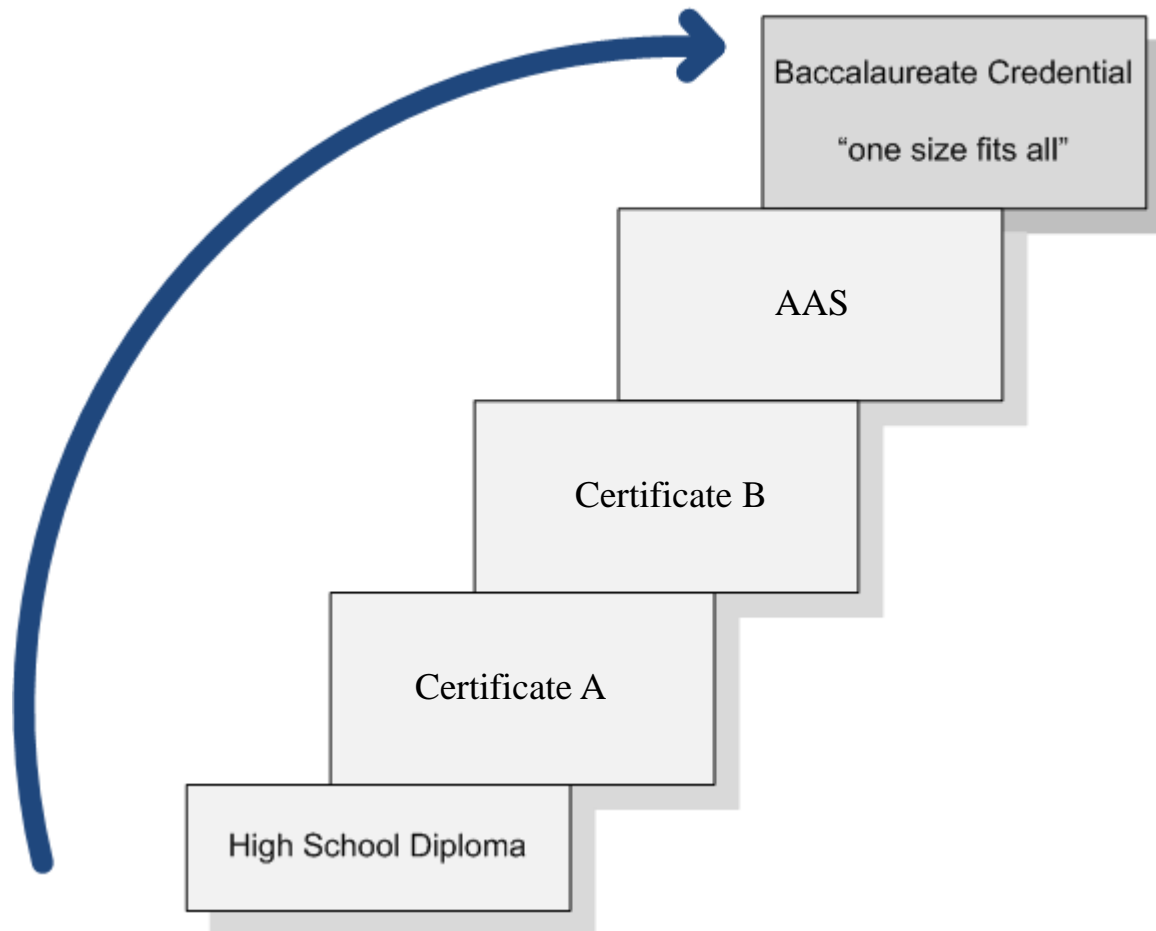


Industry Credentials





Higher Education Evolution.....



Value Added Exit Points



Welding Technology Level 1

3 Position qualification credentials: 1F, 2F, and 1G (AWS)

Kansas **WorkReady!** Certificate-Silver Level

Level 1

Certificate A

Welding Technology Level 2

Level 1 Requirements

1 Additional position qualification credential (AWS)

SENSE exam level 1 (AWS)

Welding proficiency equal to or exceeding (AWS) standard D1.1 on 3/8" thick carbon steel plate

Level 2

Certificate B

Welding Technology Degree

Requirements for levels one and two

15 credit hours of General Education (minimum)

Level 3

A.A.S.

Maximum of 64 credits for state funding



Educators Align Curriculum

Aligned Courses within the Program

Common Courses *10-12 credits:*

Shielded Metal Arc Welding – 3 credits

Gas Metal Arc Welding– 3 credits

Gas Tungsten Arc Welding– 3 credits

Welding Safety/OSHA 10 – 1 credit

Or OSHA 30 – 3 credits

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Welding Program Alignment – Kansas Board of Regents

08/25/10

Welding Technology Level 1

- 3 Position qualification credentials: 1F, 2F, and 1G (AWS)

Level 1

Certificate A

Welding Technology Level 2

- Level 1 Requirements
- 1 Additional position qualification credential (AWS)
- Welding proficiency equal to or exceeding (AWS) standard D1.1 on 3/8" thick carbon steel plate

Level 2

Certificate B
or
Certificate C

Welding Technology Degree

- Requirements for levels one and two
- 15 credit hours of General Education (minimum)

Degree

A.A.S.
Maximum of 64 credits for
state funding

Notes

6G Position on Pipe (with 2 of 4 GTAW, SMAW, GMAW, and FCAW on carbon steel) and ASME Section 9 qualifications are optional competencies; but, colleges are strongly encouraged to pursue these credentials based on regional employer needs and students' career direction.

Colleges are encouraged, not required, to offer the following supplementary credentials: Kansas **WORKReady!** Certificate-Silver Level and SENSE Level 1 exam (AWS).

Competencies identified within the 10-12 credit hours of common courses represent opportunities for articulation with K-12.

Colleges desiring to teach additional courses in their AAS (in excess of 64 credits) will need to identify those courses for KBOR.

Common Courses within the Program

Common Courses	10-12 credits:
SMAW	3 credits
GMAW	3 credits
GTAW	3 credits
Welding Safety/OSHA 10 Or OSHA 30	1-3 credit(s)

Course list sequence has no implication on course scheduling by colleges.
Institutions may add additional competencies based on local demand.



Employment Pathway



Education Path



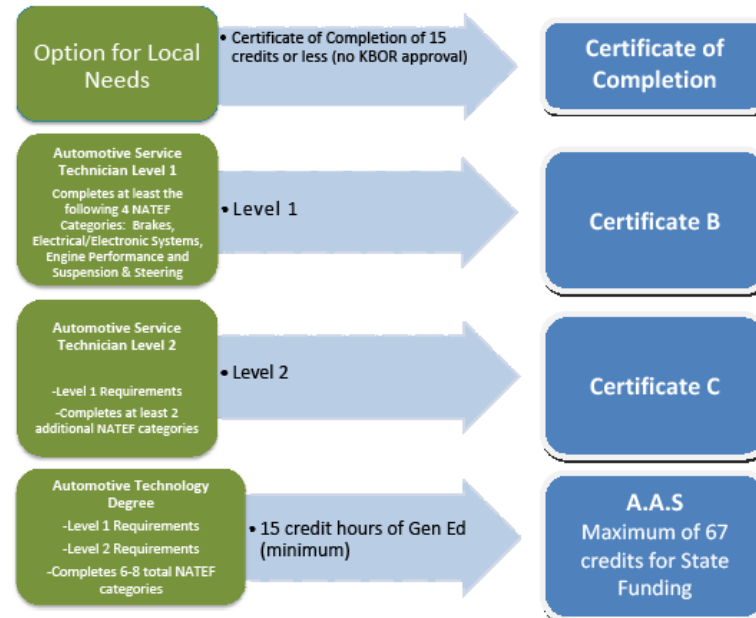
Career Path

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Automotive Technology Program Alignment – Kansas Board of Regents

3/16/10



Aligned Courses within the Program

<u>Common Courses –</u>	<u>9 credits:</u>
<i>Brakes 1 -</i>	<i>3 credits</i>
<i>Electrical 1 -</i>	<i>3 credits</i>
<i>Engine Performance 1 -</i>	<i>3 credits</i>

Notes

Business and Industry quote, "All colleges should have NATEF accreditation".

Competencies identified within the 9 credit hours of common courses represent opportunities for articulation with K-12.

Colleges desiring to teach additional courses in their AAS (in excess of 67 credits) will need to identify those courses for KBOR.

Institutions retain the flexibility to offer the certificates and or the AAS degree to meet local needs.

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Employment Pathway

Bachelor's Degree

AAS

Certificate C

Certificate B

Certificate of
Completion

High School Diploma

Education Path



Business Manager

Auto Service Manager

Auto Service Technician

Auto Service
Maintenance Tech

Entry Level

Entry Level

Career Path



“I am glad you asked us
and education is
listening to industry.”
Construction manager

What We Now
Hear from
Business





Program Alignment Supports Kansas Workforce Development

- ★ Program Alignment Provides a Supporting Framework for the Governor's CTE Initiative
- ★ Emphasizes CTE's Role in Workforce Development



Career Ready Plan

★ Funding for:

- Student Tuition
- School Transportation Costs
- Marketing to Increase Student Participation
- Incentives for High Schools which Increase Number of CTE Students with Industry Recognized Credentials



Two Separate Worlds

High
School

College



Two Separate Worlds



The diagram consists of two circles. The left circle is a solid dark blue and contains the text 'High School'. The right circle is light blue and is divided into two segments by a black line. The larger segment on the right is labeled 'College', and the smaller segment on the left is labeled 'College Level Career Tech'.

High
School

College
Level
Career
Tech

College



Program Alignment and the “Blueprint”

- ★ Effective Alignment between CTE and Labor Market Needs
- ★ Clear expectations for High-Quality Programming
- ★ Empowers States to Identify In-Demand Occupations



Kansas Workforce Development and the “Blueprint”

- ★ Establishes Framework for Statewide Articulation Agreements
- ★ Well Positioned for Consortia Based Funding



One last thing....



“At every crossroads on the path that leads to the future, tradition has placed 10,000 men to guard the past.”

Maurice Maeterlinck
1911 Nobel Prize



Questions ?



“The Kansas Board of Regents shall pursue measurable continuous improvement in the quality and effectiveness of the public postsecondary educational system in Kansas, while expanding participation for all qualified Kansans. To achieve that mission, the Board will demand accountability, focus resources, and advocate powerfully.”

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