Credential Pathway: Drone Certification

To help connect students with career-focused learning and experiences, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. The drone certification credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge and training, while also meeting graduation requirements along the way. The information in the toolkit provides schools with the specific pathway, resources of how to implement the pathway, and connection to experts in the field of Transportation and Environmental Systems or other Fields that incorporate drone technology.

Credential Name - Point Value - (EMIS Code)
- Federal Aviation Administration Part 107 Remote Pilot Certification – 6 points (CG65) *
- Small Unmanned Safety Institute Certification Level 1 – 6 points (CR67) *

How to Earn:
Students will test online to pass both credentials. Classes can be taught in person or online, and these credentials can be embedded into many types of classes such as business, communication, arts and agriculture.

Jobs and Wages:
If students complete these two courses and in addition:
Small Unmanned Safety Institute Certificate 2: 6 points (not yet on the credential list)
Visual Line of Site Systems Operations- Flight Training: 6 points (CR68) *
Visual Line of Site Systems Operations- Ground School: 6 points (CR69) *
Students will qualify for positions that pay $50,000 with the five total classes completed.

Implementation Needs:
- Annual Curriculum License (for FAA Part 107 and Safety Level 1) may apply
- Digital textbooks and testing exams approximately – $189 per student
- FAA Part 107 Certification Test – $175 per student
- Drone Kits – $500 per kit

Teachers can receive training from various train the trainer opportunities and from agencies such as the the PAST Foundation.

Credential Funding:
Reimbursement is available through EMIS for the cost of the test when student passes credentialing exam – please visit the webpage for more details.

Innovative Workforce Incentive Program (IWIP)
IWIP Credentials qualify for additional funding. Visit the webpage for the complete list.

Best Practices:
Sandusky High School – Brad Agee - bagee@scsbluestreaks.net
Dublin High School – Robert 'Bo' Cunningham - cunningham_robert@dublinschools.net
Mentor High School – Dr. Joe Glavan - jglavan@mentorschools.org

Credential Pathway: State Tested Nursing Assistant (STNA)

To help connect students with career-focused learning and experiences, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. The State Tested Nursing Assistant (STNA) credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge and training, while also meeting graduation requirements along the way.

Credential Name - Point Value - (EMIS Code)
- [Ohio Department of Health - State Tested Nurse Assistant](#) - 12 points - (CJ16) *

How to Earn:
Training consists of in-class instruction, clinical training, and training at a nursing home facility. Upon completion students will be eligible to register for the State Nurse Aide exam. Individuals who pass will have their names added to the [Ohio Nurse Aide Registry](#). Instruction and Skill can be completed in a high school, however there are many costs associated with this credential.
- Seventy-five hours of training: instructional and skill
- Sixteen hours of clinicals at Nursing Home
- 75% to pass the test. There is a skills portion and written portion.
- Credential completion takes a half year to complete on average.

Jobs and Wages:
STNA is an introductory profession and is often used to find employment in the home health care and nursing home environment fields. Many students will complete this credential and continue their education to complete an LPN or RN certification.

Implementation Needs:
STNA can have significant costs if clinicals are done at the school. Most of the instructional class can be taught at a traditional campus except for the clinical hours which need to be completed on a career-technical education campus or another approved site. A teacher needs to be certified to teach this course; this can be completed through a train, the trainer model which takes approximately six weeks to complete.

Credential Funding:
Exam Reimbursement: Reimbursement is available for the cost of the test when student passes credentialing exam – please visit the [webpage for more details](#).

Innovative Workforce Incentive Program (IWIP)
[IWIP Credentials](#) qualify for additional funding. Visit the webpage for the complete list.

Best Practices: Lebanon High School and North Union High School both offer this credential in their schools. At Lebanon High School the contact is Bunny Brooks at Brooks.Bunny@lebanonschools.org or Jennifer Coleman at Coleman.Jennifer@Lebanonschools.org. North Union Local schools contact is Brooke Fox at: bfox@nu-district.org.

Credential Pathway: Graphic Design

To help connect students with career-focused learning and experiences, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. The graphic design credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge and training, while also meeting graduation requirements along the way. The information in the toolkit provides schools with the specific pathway, resources of how to implement the pathway, and connection to experts in the field for Arts and Communication credentials.

Credential Name - Point Value - (EMIS Code)

- Adobe Certified Professional- InDesign - 4 points - (CA56)
- Adobe Certified Professional- Illustrator - 4 points - (CA54)
- Adobe Certified Professional- Photoshop - 4 points - (CA58)

How to Earn:
Students can begin working toward earning these credentials as early as middle school. Courses can be taken independently online, or in a classroom setting. These credentials could be imbedded into art or graphic classes. Each course is designed to be completed in approximately 20 hours. The Adobe credentialing exams are administered through Certiport. Students who are unsuccessful in passing the credential assessment are allowed a retake.

Jobs and Wages:
After obtaining any of the credentials, students will receive a Digital Badge which will include a list of related jobs available in their area. This will also include the wages associated with those jobs. An entry level Graphic Designer in Ohio can earn approximately $42,000 a year.

Implementation Needs:
A school or district must have Adobe software installed on computers for students to take these credentialing exams. Seat license packages are available to schools and districts through Certiport. Teachers do not need to be certified to proctor the exams. Certiport offers curriculum, practice tests, and more. Contact Certiport and find what package best suits your students' needs. Teachers can also receive outside training from agencies such as the PAST Foundation.

- Schools can register as a Certiport testing center free of charge.
- Ten seat license-can reassign code: $785 and cost of test. (approximate cost)

Credential Funding:
Reimbursement is available through EMIS for the cost of the test when student passes credentialing exam – please visit the webpage for more details.

Best Practices:
This pathway has been successfully implemented into a graphics design pathway by districts such as Dublin. Please reach out to Jennifer Hinderer hinderer_jennifer@dublinschools.net with questions.

Credential Pathway: Engineering

To help connect students with career-focused learning and experiences, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. The engineering credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge and training, while also meeting graduation requirements along the way.

Credential Name - Point Value - (EMIS Code)

- [FANUC - Certified Robot Operator](#): - 4 points - (CQ01)
- [FANUC - Handling Tool Operation and Programming](#): - 4 points - (CM13)
- [FANUC - Electrical Maintenance with R-30iB controller](#): - 6 points - (CQ03) *

How to Earn:
Courses can be offered independently or in a series to help complete a CTE-26 pathway.

Jobs and Wages:
These credentials are used throughout various advanced manufacturing and engineering fields.

Implementation Needs:
To purchase a Fanuc robotic arm price ranges depending on size, beginning at $30,000 and up to $100,000. Some schools have formed partnerships with their Career Tech Planning District to utilize their equipment.

Credential Funding:
Exam Reimbursement:
Reimbursement is available for the cost of the test when student passes credentialing exam – please visit the [webpage](#) for more details.

*Innovative Workforce Incentive Program (IWIP)
[IWIP Credentials](#) qualify for additional funding. Visit the webpage for the complete list.

Best Practices:
North Union Local Schools has already incorporated Fanuc credentials. Dublin City Schools is beginning to incorporate Fanuc credentials.

Please reach out to Jesse Miller, North Union School district at Jtmiller@nu-district.org or Jennifer Hinderer, Dublin City Schools at hinderer_jennifer@dublinschools.net for more information.

Credential Pathway: Phlebotomy

To help connect students with career-focused learning and experiences, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. The phlebotomy credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge and training, while also meeting graduation requirements along the way.

Credential Name - Point Value - (EMIS Code)

- [American Society of Phlebotomy Technicians (ASPT) - Certified Phlebotomy Technician (CPT)](#) - 12 points - (CA45) *

OR

- [National Healthcare Association (NHA) Certified Phlebotomy Technician (CPT)](#) - 12 points - (CH30) *

How to Earn:
The Phlebotomy Technician certification is earned by completing a final examination. Completing the course requires completing coursework, labs and at least 35 total completions of drawing blood or other medical sticks. The hours to complete may vary, but at least 120 hours are needed to complete all coursework. All requirements can be completed in a school setting.

Jobs and Wages:
Phlebotomist can expect to make $17 an hour. This often is a credential that is used as an entry point into further health related fields.

Implementation Needs:
Most of the work that is needed to complete this credential can be done in a classroom and a teacher of record is needed, however someone certified in a health-related field to assist is needed. Districts can partner with hospitals or their local community college to help with staffing needs. Someone with a background in phlebotomy is recommended, but other nursing professions can also be used. Material costs include syringes, tubes, rubber arms, etc. Often districts can find these materials for little or no cost from a local health facility. The manuals cost $80. A district must be set up as a testing site, but this can be done quickly and with little cost. Study guides to prepare for the exam are also available.

Credential Funding:
Exam Reimbursement: Reimbursement is available for the cost of the test when student passes credentialing exam – please visit the [webpage for more details](#).

Innovative Workforce Incentive Program (IWIP)
[IWIP Credentials](#) qualify for additional funding. Visit the webpage for the complete list.

Best Practices:
Lebanon High School and North Union High School both offer this credential in their schools. At Lebanon High School the contact is Bunny Brooks at Brooks.Bunny@lebanonschools.org or Jennifer Coleman at Coleman.Jennifer@Lebanonschools.org. North Union Local schools contact is Brooke Fox at bfox@nu-district.org.

Department of Education & Workforce

Credential Pathway: Entrepreneurship

To help connect students with career-focused learning and experience, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. The entrepreneurship credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge and training, while also meeting graduation requirements along the way.

Credential Name - Point Value - (EMIS Code)

- Entrepreneurship and Small Business Certification: - 3 points - (CG57)
- Six Sigma Yellow Belt: - 3 points - (CP29)
- Google Ads: - 3 points - (CJ80)
- Lead4Change Student Leadership Program: - 3 points - (CQ27)

Some districts have also utilized the Six Sigma Green Belt which is 6 credits and does qualify as an IWIP credential.

How To Earn:
Students can begin working toward earning these credentials as early as middle school. Courses can be taken independently online, or in a classroom setting. however, these courses require a teacher to be credentialed, however you may need to work with multiple vendors to complete the 12 hours. Train the trainer models may be used. Teachers can also receive outside training from agencies such as the PAST Foundation.

Jobs and Wages:
After obtaining the Entrepreneurship and Small Business Certification, students will receive a Digital Badge which will include a list of related jobs available in their area. This will also include the wages associated with those jobs.

Implementation Needs:
- **Entrepreneurship and Small Business Certification**: ESB course and exam range from $80-225, and exams are administered through Certiport.
- **Six Sigma Yellow Belt**: Course is completed online, self-paced or within a classroom setting. Not required to have a course or exam administrator, but often embedded into other courses.
- **Google Ads**: Learn at your own pace and get Google Product certified. There is no cost for students earning a Google Product certification.
- **Lead4Change Student Leadership Program**: To start, schools will register for the Lead4Change program, once registered Lead4Change will contact the school to begin working on integrating the program. The program is project-based where students will work as part of a team to develop their project. Must have a minimum of three students to complete. Can also be used as an after-school club.

Credential Funding:
Exam Reimbursement:
Reimbursement is available for the cost of the test when student passes credentialing exam – please visit the webpage for more details.

Best Practices:
Many districts have successfully used business credentials in a career exploration setting or in a leadership setting to work on other business skills such as resume writing, job interviews, job shadows, etc. Please reach out to our Pathways Implementation Specialist, Dennis Haft Dennis.Haft@education.ohio.gov.

Department of Education & Workforce

Credential Pathway: Intro to EV

To help connect students with career-focused learning and experiences, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. Electric Vehicle (EV) related credentials are designed to introduce students to potential EV pathways. While these pathways will not adequately prepare a student for employment in the field of EV, the material introduces skills that are recognized as relevant in EV industries. Most of the credentials listed can be implemented with little overhead cost.

Credential Name - Point Value - (EMIS Code)

- CompTIA A+: - 6 points - (CB40) *
- Six Sigma Yellow Belt: - 3 points - (CP29)
- Occupational Safety and Health Administration (OSHA) – 30-hour training: 3 points (CJ01)

Schools can also implement other course work such as Six Sigma Green Belt – 6 points.

How to Earn:
Credentials can be imbedded into courses that are already offered or taught independently through online curriculum.

Jobs and Wages:
These credentials have been identified as being EV relatable credentials. They will not lead to immediate employment. However, they allow students to be introduced to credentials that are related to the industry.

Implementation Needs:
These credentials can be implemented with little equipment cost. Staff do not need to be licensed to teach these credentials, but training is available. Costs for these credentials vary and can be purchased as an individual license or license bundles. Teachers can also receive outside training from agencies such as the PAST Foundation.

Credential Funding:
Exam Reimbursement:
Reimbursement is available for the cost of the test when student passes credentialing exam – please visit the Industry-Recognized Credentials webpage for more details.

Innovative Workforce Incentive Program (IWIP)
IWIP Credentials qualify for additional funding. Visit the webpage for the complete list.

Best Practices:
Many districts have implemented these credentials as part of other pathways in various fields such as IT, Manufacturing or Business. Embold is a non-profit organization that can assist you, the contact person is Rob Musick, rmusick@embold.org

Credential Pathway: Information Technology

To help connect students with career-focused learning and experience, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. The information technology credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge, and training, while also meeting graduation requirements along the way.

Credential Name - Point Value - (EMIS Code)
- CompTIA IT Fundamentals – 6 points - (CB45) *
- CompTIA A+ - 6 points - (CB40) *

How to Earn:
Students can begin working toward earning these credentials as early as middle school. Courses can be taken independently online, or in a classroom setting and allow students to work at their own pace. Students earning both credentials in this pathway should begin with the CompTIA IT Fundamentals first before earning the CompTIA A+. Teachers can also receive outside training from agencies such as the PAST Foundation.

Jobs and Wages:
After obtaining both CompTIA credentials, students have the potential to land the following jobs: IT Support Specialist, Help Desk Technician, Data Support Technician, and many more. Jobs and salaries depend on the IT venture a student may explore. Potential salaries range from $55,000 to $70,000.

Implementation Needs:
A school or district must have CompTIA installed on computers for students to take these credentialing exams and have a teacher of record for the credential course. CompTIA offers curriculum, exams, labs, and more. Learn more about material and costs and find what package best suits students' needs.
**CompTIA IT Fundamentals- Basic Bundle: $205.00
**CompTIA A+ Two Exams
- CompTIA A+ 1101: $359.00
- CompTIA A+ 1102: $359.00 ** approximate costs.

Credential Funding:
Exam Reimbursement:
Reimbursement is available for the cost of the test when student passes credentialing exam – please visit the webpage for more details.

Innovative Workforce Incentive Program (IWIP)
IWIP Credentials qualify for additional funding. Visit the webpage for the complete list.

Best Practices:
Dublin City Schools has successfully integrated these credentials. Contact Jennifer Hinderer at Dublin schools at hinderer_jennifer@dublinschools.org for more information.

Credential Pathway: Public Safety

To help connect students with career-focused learning and experiences, the Ohio Department of Education and Workforce created credentialing pathways that can be implemented within traditional schools. The public safety credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge and training, while also meeting graduation requirements.

Credential Name - Point Value - (EMIS Code)

- CPR - 1 point - (CB62)
- Elder Care - 4 points - (CP12)
- Bleeding Control - 1 point - (CP05)
- Occupational Safety and Health Administration – 30 Hour Training - 3 points - (CJ01)
- 3M – Head, Eye and Face Protection - 1 point - (CP59)
- 3M – Hearing and Noise Protection - 1 point - (CP60)
- 3M – Respiratory Protection - 1 point - (CP61)

Other classes such as Lead4Change and Blood Borne Pathogens could be substituted for the above listed.

How to Earn:
Courses can be taken independently online, or in a classroom setting. These credentials are also able to be embedded into elective courses.

Jobs and Wages:
This pathway is meant to be an introductory pathway and would lead to very basic employment. It is meant to familiarize students with fields that are part of public safety and could lead to other credentialing opportunities before employment. This is a first step often for other credentials or career classes such as Phlebotomy, STNA or First Responder.

Implementation Needs:
A certified trainer is required to instruct for the CPR credential. Often schools will use an on-site school nurse or reach out to their local health department or hospital. Other courses can be completed without a specific license. These credentials are often completed in one year.

Credential Funding:
Reimbursement is available through EMIS for the cost of the test when student passes credentialing exam – please visit the webpage for more details.

Best Practices:
Lebanon High school has had good success using this as an introductory pathway. Contact Bunny Brooks bunny.brooks@lebanonschools.org or Jennifer Coleman coleman.jennifer@lebanonschools.org for more information.

Credential Pathway: Manufacturing

To help connect students with career-focused learning and experiences, the Ohio Department of Education and Workforce has created credentialing pathways that can be implemented within traditional schools. The manufacturing credentialing pathway provides an opportunity for students to prepare themselves for a career after graduation by offering the student hands-on experience, industry knowledge and training, while also meeting graduation requirements along the way. The information in the toolkit provides schools with the specific pathway, resources of how to implement the pathway, and connection to experts in the field for Manufacturing credentials.

Credential Name - Point Value - (EMIS Code)

- [Certified Industry 4.0 Associates I: Basic Operations](#): 3 points (CQ83)
- [Certified Industry 4.0 Associates II: Advanced Operations](#): 3 points (CQ84)
- [Certified Industry 4.0 Associates III: Robot Systems Operations](#): 3 points (CQ85)
- [Certified Industry 4.0 Associates IV: Network and Data Analysis](#): 3 points (CQ86)

How to Earn:
Courses are a mixture of online and hands-on training. Materials must be purchased to complete these credentials.

Jobs and Wages:
These credentials have been identified as in demand and offer many opportunities for students directly out of high school or pathways that lead to more advanced degrees or licenses.

Implementation Needs:
Educators do not need to be certified to teach this course; however, training is available and recommended. Training is completed on-site or at an authorized training center. Material costs for equipment are estimated at around $250,000.

Credential Funding:
Reimbursement is available through EMIS for the cost of the test when student passes credentialing exam – please [visit the webpage for more details](#).

Best Practices:
Schools that have successfully implemented these pathways include Southwest Schools and Brookfield Local Schools.

Department of
Education &
Workforce