

April 2, 2021

TO: State E&I Apprenticeship Advisory Committee Members and Consultants

FROM: Owen Smith, Bureau of Apprenticeship Standards; Owen.Smith@dwd.wisconsin.gov

SUBJECT: State Electrical & Instrumentation Apprenticeship Advisory Committee

DATE: Wednesday, April 14, 2021

TIME: 1:00 PM

PLACE: <https://dwdwi.webex.com/dwdwi/j.php?MTID=maa64163324a025db8ce7443e368375ca>
Mtg number: 145 297 0858
Password: U3Qa4Ngu8Dm
Join by phone: +1-855-282-6330 US TOLL FREE
Access code: 145 297 0858

TENTATIVE AGENDA

1. Call the meeting to order.
2. Record attendees.
3. Review the roster.
4. **Action items**
 - a. Approve the minutes.
 - b. Review the related instruction.
 - c. Review the state standards.
 - d. Review the youth apprenticeship curriculum.
 - e. Revise the E&I Technician registered apprenticeship.
5. **Discussion items**
 - a. Registered apprenticeship during COVID-19
 - b. Mandatory registration in BASERS, effective July 1, 2021
 - c. Implementing revisions to CFR 29.30
 - d. [Biden Administration Bolsters Registered Apprenticeship](#)
 - e. [National Apprenticeship Act 2021](#)
 - f. [Wisconsin Apprenticeship Completer Report](#)
 - g. [Race and Registered Apprenticeship: RA's Role in Driving Equity](#)
 - h. Implementing Transition to Trainer and Teaching Transition to Trainer
 - i. Supportive services and OJL reimbursement for registered apprentices
 - j. Applicant outreach campaign and revisions to www.WisconsinApprenticeship.org
 - k. Apprenticeship Completion Award Program
 - l. BAS leadership and personnel changes
 - m. 2021 National Apprenticeship Week

n. Other

7. WTCS update
8. Review the program participants.
9. Schedule the next meeting.
10. Adjourn

Draft Minutes of the
Electrical & Instrumentation
State Apprenticeship Advisory Committee

October 5, 2020
Webinar

Members Present	Employer / Organization
Butt, Nate (Co-Chair)	Quad Graphics
Cannestra, Anthony (Co-Chair)	GE Healthcare
Lane, Steve	Sargento Foods, Inc.
Lundey, Dave	MMSD
Randall, Bob	Brakebush Brothers
Woehlke, Scott	Mercury Marine
Members Absent	Employer / Organization
Cestkowksi, Jim	MPI
Hafeman, Brian	PCA
Roach, Mike	Trane Co.
Consultants & Guests	Employer / Organization
Badger, Richard	Bureau of Apprenticeship Standards
Grunewald, Jeff	Lakeshore Technical College
Harding, Burt	Bureau of Apprenticeship Standards
Johnson, Joshua	Bureau of Apprenticeship Standards
Kasper, Andrew	Bureau of Apprenticeship Standards
Kiel, Todd	Northeast Wisconsin Technical College
Mackey, Jim	Wisconsin Technical College System
Martindale, Marc	Northcentral Technical College
Mayek, Mandy	Mid-State Technical College
Metko, Katie	Northcentral Technical College
Nakkoul, Nancy	Wisconsin Technical College System
Popp, Corey	Bureau of Apprenticeship Standards
Smith, Owen	Bureau of Apprenticeship Standards

1. The meeting was called to order at 10:05 a.m. by Nate Butt, Committee Co-Chair, in conformance with the Wisconsin Open Meeting Law.
2. Mr. Smith recorded attendees. A quorum was present.
3. The committee reviewed the roster and requested to add two new members, one representing the Mechatronics Technician program.

4. Special Topics

a. Registered Apprenticeship during COVID-19

Director Johnson reported that 1,000 less apprentices are registered than this time last year. The most noticeable declines are in the service and utility sectors; construction was affected the least. He noted that the decline was due mostly to the absence of new apprentice contracts.

Director Johnson noted that Bureau staff have been working from through since March and will continue through 2020. He thanked all attendees for their organizations' support for virtual meetings and continuing business as usual, to the extent possible.

Attendees reported the following:

- Many employers aggressively furloughed employees, including apprentices until their respective market returned. Eventually, some employers were able to register a few new apprentices, but the total workforce remains lower and the markets remain uncertain.
- The technical college consultants thanked employers for quickly transitioning to online delivery of related instruction.

b. Revising the youth apprenticeship curriculum

Mr. Smith reported that the state youth apprenticeship staff and Worldwide Instructional Design System are revising all youth apprenticeship curriculum to ensure it meets the needs of industry and aligns with applicable registered apprenticeships. He noted that the project will include the manufacturing career cluster, which relates to the state committee's occupations. He encouraged attendees to help review the competencies when the career cluster is scheduled.

The state committee expressed support for youth apprenticeship and the project, but expressed concern that they may not be able to sponsor youth apprentices in the short term.

5. Old Business

a. Review the follow-up items from the previous meeting.

- i. The committee approved the minutes from the previous meeting as written.

- ii. For action: Review the Electronic & Instrumentation Technician registered apprenticeship.

Mr. Smith reviewed the revisions approved by the state committee at the 2020 spring meeting and noted that he will survey sponsor for their input. He noted that, in the meantime, sponsors who prefer to include automation in their training can do so via the local optional work processes.

The state committee agreed with the revisions and the process.

iii. For action: Implement applicant assessments and scores.

Mr. Smith reviewed that several technical colleges and sponsors recommend that the state committee implement applicant assessments and minimum required scores to ensure registered apprentices are prepared for the comprehension level of the related instruction, especially math.

Mr. Todd Kiel commented that the same process is used by construction local committees. If applicants fail to meet the required scores, they can receive tutoring, continue working and apply later; their work experience is later credited by the sponsor. He noted that the college provides tutoring to industrial apprentices, as well; it can delay their completion date, but it may be necessary for them to successfully complete the program.

Mr. Harding concurred.

Ms. Nakkoul and other technical college consultants reiterated that, across the board, all apprenticeship sponsors must ensure their applicants are prepared for the rigor of the related instruction. Applicants that do not succeed on an assessment or in related instruction can wait, reapply, and receive tutoring; they could also concurrently enroll in related instruction and a remedial course. A third option is to frontload the related instruction or remedial course; apprentices could apply for credit for prior learning.

Action: *the state committee approved a motion for the Bureau to convene a focus group of sponsors and technical college representatives to recommend action at the 2021 spring meeting.*

b. Implementing revisions to CFR 29.30

Mr. Kasper reported the Bureau's current efforts to implement CFR 29.30. The Bureau continues to update the Wisconsin Apprenticeship Manual with laws that were passed since the manual was last revised, such as CFR 29.30. The Bureau drafted the new discrimination and harassment complaint form and disability disclosure form for apprentices and revised the quality assessment for all sponsors .

The discrimination form and quality assessment form will be reviewed by the WI Apprenticeship Advisory Council at its year-end meeting. The disability disclosure form has been in circulation for the past few months and the response rate was been high.

Attendees did not have questions or comments.

e. Federal grants to expand registered apprenticeship

Director Johnson reported that the WAGE\$ grant concluded in September. The Bureau met most of its goals with exception of enrollment in some new occupations, which is not a surprise because enrollment in new occupations grows slowly.

The first and second rounds of the state expansion grant expire on October 30. Round two includes reimbursements to sponsors that hire underrepresented populations and graduates of certified pre-apprenticeship programs; the reimbursements cover certain costs of on-the-job learning.

Reimbursements will be issued on a first come, first served basis. The related policies are pending approval of the Department of Administration populations.

The Bureau received a fourth round of federal grant funding, totaling \$9 million. The grant goals include the following: register 3,000 new apprentices; increase underrepresented populations in registered apprenticeship; align related instruction for specific registered apprenticeships with curriculum in technical diploma and associate degree programs; incentivize sponsoring registered

apprentices; fund an extensive, applicant-focused outreach campaign; and hire an Apprenticeship Navigator for the northeast and four new Apprenticeship Training Representatives for specific sectors, excluding construction.

Director Johnson noted that he was excited that the Department of Labor awarded the grant to the Bureau after the retirement of former director, Karen Morgan. He considered the grant a sign of faith in his leadership. Forty-two states received a base of \$450,000, and only eight states received more than \$8 million.

Attendees did not have questions or comments.

f. Industry-Recognized Apprenticeship Programs (IRAPs)

Director Johnson reported that IRAPs were implemented this year and the standards recognition entities, or approving bodies, were announced on the Department of Labor website this September. The Bureau, with the support of the WI Department of Workforce Development, maintains it will not approve IRAPs in Wisconsin. Instead, the Bureau will offer flexible registered apprenticeships.

Attendees did not have questions or comments.

g. Applicant outreach campaign and revisions to www.WisconsinApprenticeship.org

Director Johnson reported that the applicant outreach campaign to be funded by the new federal grant will include a complete redesign of the Bureau website. The new website will look and function like a business website and be more user-friendly.

Attendees did not have questions or comments.

h. Apprenticeship Completion Award Program

Director Johnson reviewed the most recent reimbursement statistics. He reiterated that ACAP has continued to be a clear example of bipartisan support for registered apprenticeship for several years.

Attendees did not have questions or comments.

i. Other

Attendees did not have additional questions or comments.

6. New Business

a. Mandatory registration in BASERS, effective July 1, 2021.

Director Johnson reported that he has proposed that all current and future sponsors must register in and perform contract actions through BASERS as of July 1, 2021. Sponsors that do not comply will not be permitted to register new apprentices. He will discuss the proposal with the WI Apprenticeship Advisory Council at its upcoming meeting. The objective of the proposal is to position BASERS as the central contract and communication portal between the Bureau and all sponsors, now and in the future.

The state committee reported that BASERS works very well.

b. For action: revising state standards

Mr. Smith reported that all state committees will review their state standards throughout 2021 to ensure all recent legislative and policy updates have been incorporated and all content is current. State construction committees will also review their applicant assessment requirements

Attendees did not have questions or comments.

c. 2020 Meeting of National Association of State and Territorial Apprenticeship Directors

Director Johnson reported that the NASTAD Conference was held virtually the week of September 29. States reported issues similar to those encountered by Wisconsin Apprenticeship: IRAPs, youth apprenticeship, etc.

Attendees did not have questions or comments.

d. 2020 National Apprenticeship Week

Director Johnson reported that National Apprenticeship Week will occur the week of November 8. Sponsors and stakeholders are encouraged to host virtual events and provide the access information to the Bureau for inclusion on the master calendar.

Attendees did not have questions or comments.

e. 2021 Biennial Apprenticeship Conference

Director Johnson reported that he and the WI Apprenticeship Advisory Council voted to postpone the conference indefinitely until the pandemic resolves.

Attendees did not have questions or comments.

f. Revising Transition to Trainer and Teaching Transition to Trainer

Ms. Nakkoul reported that the course will be revised and implemented by January 2021. The revisions include contemporary content and multiple modalities for delivery, including online and hybrid. The course will remain an eight-hour course. Materials will be available for download; hard copies will no longer be used.

T2T instructors certified prior to 2021 will be required to take a three-hour refresher to be certified to teach the revised curriculum. New instructors will be required to take WTCS Teaching Methods and six-hour version of Preparing to Teach Transition to Trainer. The courses will be scheduled by WTCS and posted online.

Attendees did not have questions or comments.

g. BAS leadership and personnel changes

Director Johnson reported several personnel changes: ATR Chris Landreman accepted a new position with DWD Job Service; Darla Burton from youth apprenticeship accepted a new position; and Liz Pusch is the new BAS section chief. The Bureau will hire six new positions through its recent grant

Attendees did not have questions or comments.

h. Other

Ms. Nakkoul explained the WTCS and BAS will begin a five-year cyclical review of all related instruction beginning next year. Her office will email instructors and BAS to identify priorities, and the results will be presented to the state committees next year.

She added that the technical colleges and BAS have received multiple requests to revise the Mechatronics Technician program.

The state committee commented agreed that the Mechatronics Technician program should be reviewed. The committee expressed curiosity to identify the differences and similarities between that program, Maintenance Technician, and related occupations.

Ms. Nakkoul concluded by noting the WTCS will be researching how to align the related instruction for this committee's registered apprenticeships with the electronic mechanical associate's degree, as part of the Bureau's new state expansion grant.

6. WTCS Update

Ms. Nancy Nakkoul review the remaining items in the written summary.

Attendees did not have questions or comments.

7. Participants included 261 employers and 765 apprentices with a contract in active or unassigned status on October 1, 2020.
8. The Bureau will tentatively schedule the next meeting via electronic survey.
9. The meeting adjourned at 11:55 a.m.

Submitted by Owen Smith, Bureau of Apprenticeship Standards

Employment and Salary Data

2018-19 Apprenticeship Completion



1

Employment Location



Employment Location 2016-17



Employment Location 2017-18



Employment Location 2018-19



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2



3



4

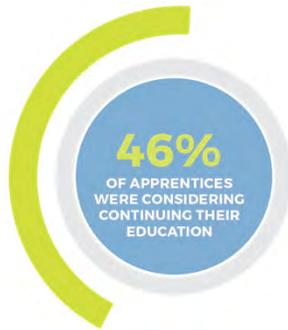
Continuing Education



2016-17 Apprenticeship Completers

2017-18 Apprenticeship Completers

2018-19 Apprenticeship Completers



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5

Looking ahead...



- DWD-BAS will be reorganizing instructional program groups into new industry sectors: currently Construction, Industrial, and Service. This will at some point affect future version of the report, which WTCS will adapt to match DWD-BAS guidelines.
- Please keep WTCS in mind if you have captured apprenticeship-related imagery, especially regarding new apprenticeship programs and those featuring demographic minorities.
- Contact: nancy.nakkoul@wtcsystem.edu or dan.arneson@wtcsystem.edu

6

Distribution



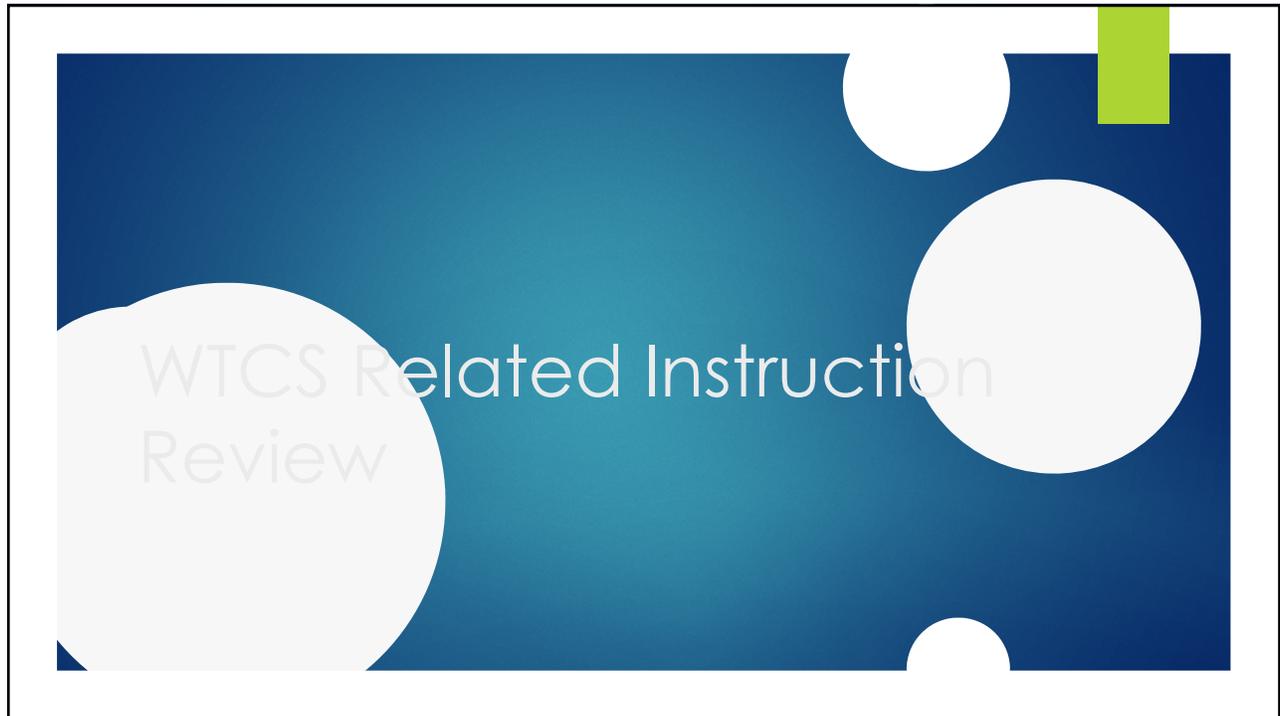
- WTCS will be distributing a web link in lieu of printing a physical report this year, please bookmark and share widely the link to the electronic version of the most recent Apprenticeship Completion report, which again demonstrates strong outcomes and the value of Wisconsin's earn-while-you-learn apprenticeship model to individuals and employers. The link will be distributed to the following:
 - DWD - Bureau of Apprenticeship Standards
 - Wisconsin Apprenticeship Advisory Council
 - State Trade Committees (Apprenticeship Advisory)
 - WTCS Board Members
 - WTCS Apprenticeship Coordinators
 - College Marketing Teams
 - WI High Schools - Counselors

Online at: www.wtcsystem.edu->About Us->Publications and Resources

Direct Link: <https://www.wtcsystem.edu/2018-19-WTCS-Apprenticeship-Completer-Report>

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1

Systematic
Planned
Reviews

All apprenticeships

Over 5 years

Flexible to meet employer
and WTCS needs

A slide with a dark blue background and a light blue gradient. The text 'Systematic Planned Reviews' is on the left. On the right, there are three horizontal orange lines, each followed by a line of text: 'All apprenticeships', 'Over 5 years', and 'Flexible to meet employer and WTCS needs'. There is a small green rectangle in the top right corner.

2

Goals

- ▶ Update course documentation to ensure curriculum is accurate
 - ▶ Course Competencies
 - ▶ Performance Standards
 - ▶ Credits/Hours
- ▶ Examine potential alignments with other credentials
 - ▶ Pre-apprenticeship and Youth Apprenticeship
 - ▶ WTCS fulltime programs
- ▶ Review ways to maximize Credit for Prior Learning

3

FY20-21 Projects

- ▶ 50-527-1 Wastewater Plant Operator
- ▶ 50-413-3 Electrical Construction/50-413-2 Electricity
- ▶ 50-413-9 Electrician (ABC)
- ▶ 50-420-9 Industrial Manufacturing
- ▶ 50-410-1 Carpentry
- ▶ 50-420-9 Carpentry ABC
- ▶ 50-152-1 IT Software Developer
- ▶ 50-154-1 IT Service Desk Technician

4

FY21-22 Projects

- ▶ 50-401-9 HVAC Apprentice (ABC Wisconsin)
- ▶ 50-408-1 Bricklaying/Masonry Apprentice
- ▶ 50-435-1 Industrial Pipefitter Apprentice
- ▶ 50-502-1 Cosmetologist Apprentice
- ▶ 50-502-5 Barber Apprentice
- ▶ 50-151-2 IT Cybersecurity
- ▶ 50-156-1 IT-Data Analyst
- ▶ 50-451-3 Broadband Service Technician Apprentice
- ▶ 50-620-1 Mechatronics Technician Apprentice

5

Review Process

Share plan with State Trade Committees in the Spring

- Discussion or survey to identify employer concerns

Create Instructor Teams

- All colleges approved to offer the program are invited to identify 1-2 instructors

Gather Feedback from Instructors

- Share course review packet
- Gather feedback via a survey

Conduct Web Meeting Reviews (1-3)

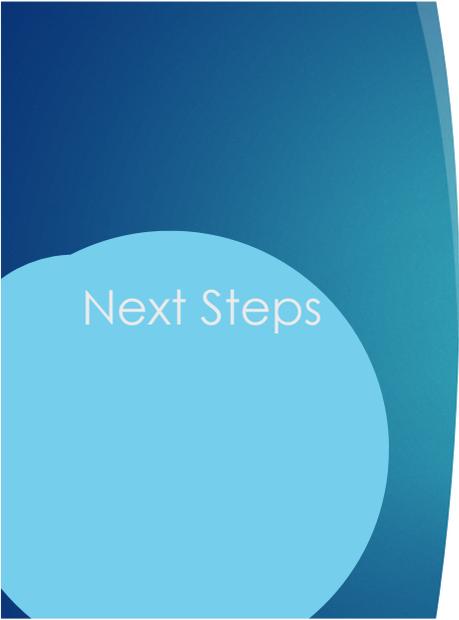
- Make changes to Course Outcome Summaries as needed
- Explore potential alignments to full-time program courses, pre-apprenticeship, and youth apprenticeship
- Explore potential alignment of work-based learning to FT program credits
- Discuss ways to maximize credit for prior learning credit

Obtain Feedback and Approvals

- WTCS Approvals
- Share with State Trade Committees

Publish project for Use from the WTCS Repository

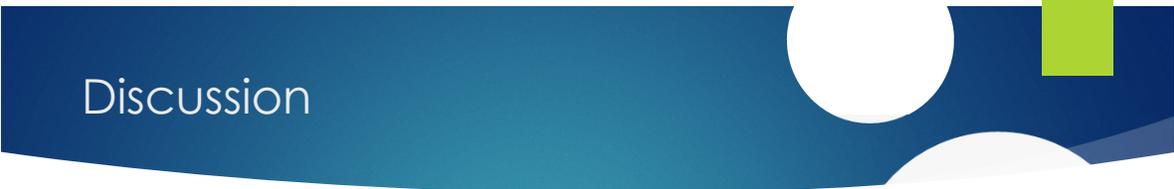
6



Next Steps

-  Feedback
-  Identify potential concerns or areas for discussion

7



Discussion

Share your thoughts and concerns about the related instruction courses

- ▶ Are you finding apprentices need more or less time for learning in some areas?
- ▶ Is anything missing from the related instruction?
- ▶ Is anything not needed anymore?

8

March 1, 2021

Dear Apprenticeship Sponsor:

Last summer, our agency advised you via letter that within one year, by July 1, 2021, all apprenticeship sponsors will be required to register in the Bureau of Apprenticeship Standards Electronic Registration System (BASERS) and use the interface to enroll incoming apprentices. At its February 9, 2021 meeting, the Wisconsin Apprenticeship Advisory Council affirmed its support for our agency's BASERS policy and the July 1 deadline.

Sponsors who have not yet registered in BASERS, or those who need further assistance using the platform, should contact their Apprenticeship Training Representative promptly. The ATRs can provide the necessary technical assistance to meet the July 1, 2021 deadline.

BASERS is an intuitive, self-service website for sponsors developed as part of a national initiative toward registered apprenticeship expansion and modernization. The ongoing COVID-19 pandemic has only underscored the benefits of conducting business through a virtual system like BASERS, which connects stakeholders across the state without the need for face-to-face contact.

The benefits of BASERS, once a sponsor has registered, are as follows:

- Faster creation and approval of contracts;
- Increased access to information about a sponsor's own program;
- The capacity to initiate and track contract actions such as cancellations, work assignments, and completions;
- The ability to ensure records are accurate before finalization.

Thank you for your continued support of Wisconsin Apprenticeship.

Sincerely,



Joshua A. Johnson, State Director
Wisconsin Apprenticeship

February 24, 2021

Dear Apprenticeship Employers:

The [link](#) is now live to access information on applying for on-the-job learning reimbursements through Wisconsin Apprenticeship grant funds. Follow the instructions offered in the [link](#) and review the information in this email regarding eligibility. The deadline for submitting questions regarding this announcement is March 5th at 2 p.m. CST. Awards may be made as soon as March 15th. Applications will be reviewed in the order in which they are received. Questions can be sent to our grants mailbox at dwdetgrants@dwd.wisconsin.gov.

The on-the-job learning reimbursements are part of a Wisconsin grant initiative, using federal grant funds, to help defray the extraordinary costs of training apprentices. Employers may be eligible for up to a \$1,000 reimbursement for each apprentice that they hired between July 1, 2019 and January 30, 2021, as long as the apprentice meets one of the following criteria:

- The apprentice previously completed a Wisconsin Youth Apprenticeship program in any career cluster; or
- The apprentice previously completed a state certified pre-apprenticeship program in any job sector. A detailed list of Wisconsin certified pre-apprenticeship programs can be found [here](#); or
- The apprentice was hired to work in the IT, Healthcare, Bio-Tech, Transportation, Agriculture or Financial Services sectors.

Employers may only receive one on-the-job learning reimbursement per apprentice that meets the qualifying criteria and cannot request reimbursement for the same apprentice more than once.

Thank you for being valued Wisconsin apprenticeship employers and sponsors.

Sincerely,



Joshua Johnson, State Director
Wisconsin Apprenticeship

Dear Wisconsin Apprentices:

Wisconsin Apprenticeship has federal grant funds available to provide supportive services to registered apprentices. Up to \$600 may be available to each Wisconsin registered apprentice to assist with the following apprenticeship-related costs:

- Uniforms or work clothing
- Tools
- Required physicals
- Books
- Test fees
- Mileage
- Bus passes
- Parking permits
- Childcare
- Rent & housing costs

Apprentices who began their apprenticeship between July 1, 2019 and March 31, 2022 are eligible. Reimbursements will be awarded to applicants through March 31, 2022, or until the funding runs out. Apprentices must contact the following organizations, according to location, to determine if they qualify:

**Milwaukee, Racine, Kenosha, Walworth,
Washington, Waukesha and Ozaukee
counties**

Employ Milwaukee
Jose Galvan
Jose.galvan@employmilwaukee.org
2342 North 27th Street
Milwaukee, WI 53210

**Office 414-270-1743
Cell 414-852-1914**

All other Wisconsin counties

South Central Workforce Development Board
Jeff Kennedy
jkennedy@wdbscw.org
3513 Anderson Street Ste 104
Madison, WI 53704

Office 608-249-9001 Ext. 230

Thank you for being valued Wisconsin apprentice.

Sincerely,



Joshua Johnson, State Director
Wisconsin Apprenticeship

ACAP Reimbursement Requests With Approvals Processed During (Time Period) - Summary

Apprenticeship Completion Award Program (ACAP)

Bureau of Apprenticeship Standards

Division of Employment and Training

3/2/21 08:40 AM

Filters Applied: Determination Date between 7/1/20 and 3/2/21, Fiscal Year(s)= FY21

Type	Fiscal Year	# of RRs	\$Approved	\$Denied
Year One	21		\$97,137.35	\$328,547.82
Year One Totals		404	\$97,137.35	\$328,547.82
Completion	21		\$179,424.43	\$771,505.80
Completion Totals		329	\$179,424.43	\$771,505.80
Report Totals		733	\$276,561.78	\$1,100,053.62



WTCS System-Wide Activity Update February 2021

2021 WTCS-BAS Apprenticeship Completion Report

The 2021 WTCS-BAS Apprenticeship Completer Report is now available online. The report contains employment, wage and training satisfaction outcomes for apprentices completing their programs in 2018-19. It can be found here: <https://wtcsystem.edu/impact/publications/apprenticeship-completion-report/>

- Of the 1,195 completers surveyed, 365 (31%) responded. In the prior year report, 1143 completers were surveyed and response rate was 43%.
- Respondents reported a 95% satisfaction rate for on-the-job training and 97% for classroom instruction.
- Median salary across all trades increased to \$81,072, an increase of approximately \$800 more than the prior year.
- Respondents indicating an interest in continuing education beyond apprenticeship decreased from 44% last year to 35% this year.

MyWTCS Website Re-Design and Launch: New Apprenticeship Resources for [Preparing to Teach Transition to Trainer \(PT2TT2T\)](#)

MyWTCS is an intranet site for the Wisconsin Technical College System and stakeholders. Launched in February 2021, the newly re-designed site includes a new look and improved functionality and features, including additional apprenticeship resources such as the administrative guidance and teacher trainer course offerings for the Transition to Trainer course. The site can be found at: <https://mywtcs.wtcsystem.edu/>

New Proactive Approach to Revisions of Apprenticeship Related Instruction offered through the WTCS

Starting in 2021, the WTCS and BAS have adopted a 5-year cycle revision framework for all systemwide apprenticeship curriculum where related instruction is offered at more than one WTCS college. Approximately sixty systemwide apprenticeship programs have a documented curriculum standard model that will form the foundation for review of program and course outcomes and competencies. Apprenticeship faculty, industry sponsors and State Apprenticeship Trade Advisory Committees will be engaged in the review process. This proactive approach will ensure that learning remains current with industry needs and technological advancements. Program assignment within the 5-year cycle will remain fluid.

2020-21	2021-22
<ul style="list-style-type: none"> • Carpentry (All) • Wastewater Treatment • Electrical (All) • Industrial Manufacturing Technician • IT-Service Desk • IT-Software Developer 	<ul style="list-style-type: none"> • HVAC (ABC) • Industrial Pipefitter • Mechatronics • Barber/Cosmetology • Bricklaying/Masonry • IT Cybersecurity • IT Data Analyst • Broadband Technician

Apprenticeship in New Sectors: Snapshot of Program Growth Past Five and Current Years

New Wisconsin Apprenticeship Programs in New Industries

2016	Arborist MILW MSTC	Mechatronics Tech WCTC BTC GTC LTC MILW SWTC MPTC CVTC	IT-Software Developer MSTC CVTC NTC MPTC MDSN	
2017				
2018	Organic Vegetable Farm Manager NWTC	Data Analyst CVTC NTC MILW MDSN MPTC	IT-Service Desk Technician WCTC CVTC NTC MDSN MPTC	Financial Services Representative MILW CVTC MPTC
2019	Broadband Technician WITC	Medical Assistant NTC	Biotechnology Lab Support Assistant MDSN	
2020	Facilities Maintenance Technician MILW	Cybersecurity Analyst MDSN	Pharmacy Technician MILW	
2021	Roadway Maintenance Technician CVTC	Industrial Metrology Technician FVTC	Culinary Apprenticeship MILW	





State Committee Report State Electrical & Instrumentation Comm

This summary counts employers and apprentices with a contract active or unassigned on 4/1/2021 in trade(s) associated with this committee.

Report is based on apprentice contracts where:

- Status is 'Active' or 'Unassigned'.
- Contract sector is 'Industrial' or 'Service'.
- Contract trade code matches a trade code assigned to committee.
- Contract sponsor is the employer.

Note: Employers with contracts in more than one trade or committee can cause Column #3 totals at the Committee or State level to deviate from the summed total of the individual trade or committee rows.

Trade	Total # of Sponsors	Total # of Apprentices	Of Total Apprentices in Column 3, # who are...			
			Minority		Females	
			#	%	#	%
1	2	3	4	5	6	7
Report Total	263	733	53	7.2	15	2.0
Electrical and Instrumentation (E & I) Technician (0271028101801)	57	166	7	4.2	6	3.6
Industrial Electrician (0282926101801)	139	304	26	8.6	4	1.3
Maintenance Electrician (0282926101802)	2	7			0	
Maintenance Technician (0282926101805)	112	256	23	9.0	5	2.0