6BILT

BILT for the Future: How to Keep Looking Ahead So Curriculum Stays Current with Workforce Needs

HITEC July 24, 2023





NATIONAL
CONVERGENCE
TECHNOLOGY CENTER

AGENDA

TODAY'S TOPICS

Welcome and introductions

BILT 101

Recruiting for the BILT

Educator and employer panel

Preparing for the KSA meeting

Hosting the KSA meeting

Cross-refencing KSAs to curriculum

AGENDA

WORKSHOP GOALS

- Applying the BILT (Business and Industry Leadership Team) Model to your program
- Understanding the elements of a successful BILT
- Discussing strategies to recruit the right employers
- Practicing how to host the annual job skills meeting and leverage the outcomes

WHO WE ARE

NATIONAL CONVERGENCE TECHNOLOGY CENTER

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Collin College – Frisco TX

Funded by a grant from the National Science Foundation

Regional ATE Center starting fall 2004

National ATE Center starting fall 2012

Mission

Support IT infrastructure/ cybersecurity programs across the country and align curriculum with employer need

Community of practice – 97 colleges in 32 states

Work is co-led by IT business leaders

Free professional development for IT faculty (22nd year of Summer Working Connections)

MAJOR GOAL FOR ALL TECHNICAL PROGRAMS



STUDENTS completing certificates and degrees and well-qualified for ready employment **BUSINESSES** highly engaged









EBILT







BILT ROOTS

BUSINESS AND INDUSTRY LEADERSHIP TEAM

- National Science Foundation (NSF)
 Center of Excellence in Convergence
 Technology. based at Collin College (TX)
 [2012-2023]
- Established BILT model through work with business leaders from across the nation to determine the Knowledge, Skills, and Abilities that "workforce ready" graduates will need
- Model implemented at more than 100 colleges and projects in multiple disciplines.
- US DOL and ED recognize BILT as leading model for strategic employer engagement
- Pathways to Innovation NSF project launched BILT Academy to scale the model



DIFFERENT FLAVORS

BUSINESS AND INDUSTRY LEADERSHIP TEAM

- Local BILT advising a single college or district
- Regional BILT advising multiple colleges
- National BILT advising colleges coast to coast
- Project-specific BILT advising a particular initiative like a grant

The BILT model works with any technical program at any size college.



EMPLOYERS

ROLES

- Co-lead college programs through quarterly meetings
- Annually prioritize Knowledge, Skills and Abilities (KSAs) they want graduates to have 12-36 months into the future using structured, repeatable voting process
- Predict labor market demand
- Identify industry trends that could impact the program

WIIFM

- Entry-level employees with "hit-the ground-running" skills (saves \$\$)
- Tangibly give back to the community
- Tapping eager talent in transitioning to the workforce
- Time valued and appreciated



FACULTY

ROLES

- Cross reference KSAs to existing curriculum
- Update curriculum to address KSAs prioritized by businesses
- Provide businesses with feedback regarding implementation

WIIFM

- Delivering relevant, industry sought-after skills
- Students more prepared to enter the workforce
- Early business engagement exposes students to business perspective (mentoring, internships, business-graded capstone courses)



BENEFITS

WIN-WIN FOR EVERYONE



Employers
connect with a
pipeline of
"workforce ready"
candidates.



Faculty have assurance they're teaching the skills the workforce demands.



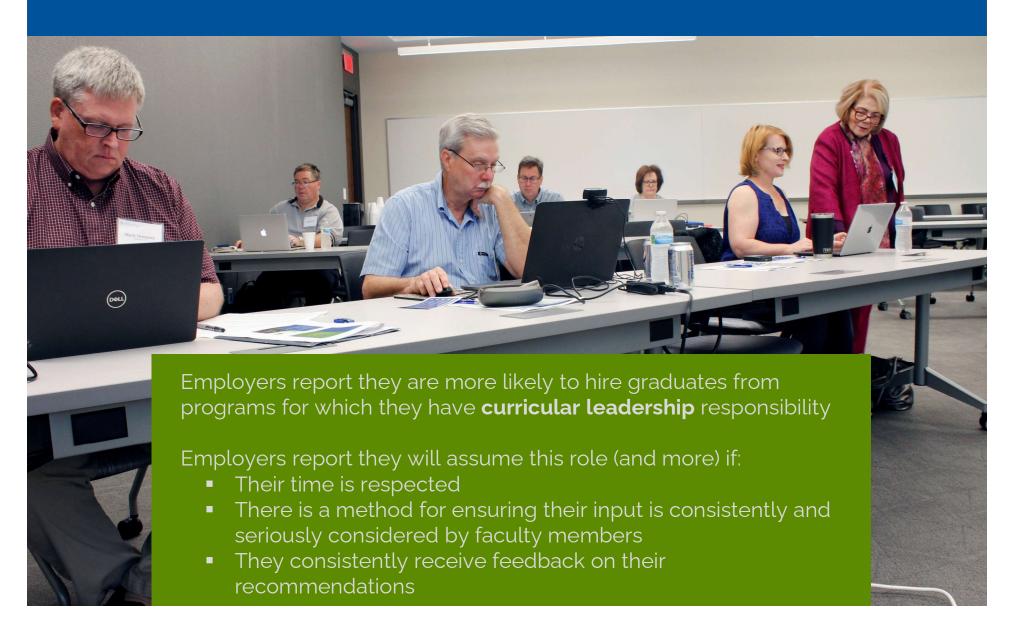
Students are first to be considered for internships and job openings.



Programs
develop a pool of
industry expert
advisers to
support all
aspects of a
program.

CO-LEADERSHIP





BILT MEETING CYCLE

Building and maintaining a BILT is a high-touch activity with two-way communication.

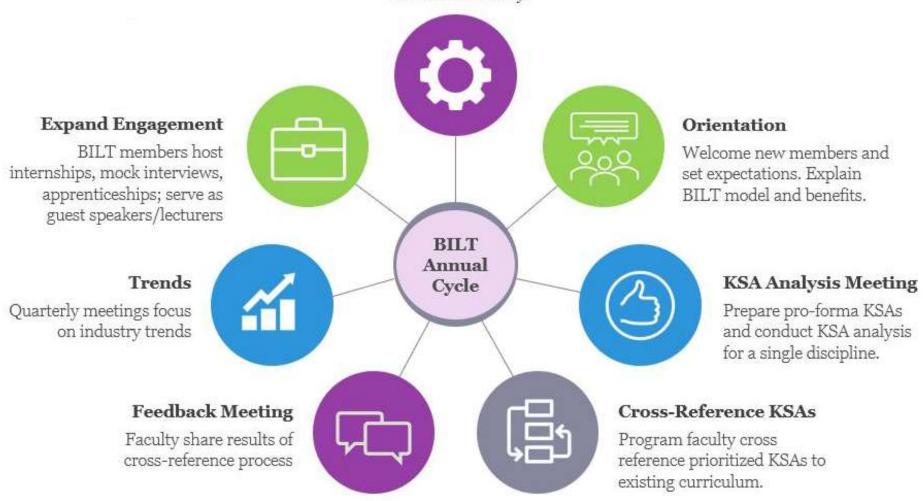
- Annual KSA analysis meetings held in hybrid mode in person for those who are able and webmeeting software for others (a single 2 - 2½-hour meeting per year)
- Industry Trends meetings are held 2-3 times per year via webmeeting software.

Emphasis is on growing a pipeline of right-skilled job candidates, usually in your service area, region, or state



Recruit BILT Members

Once established, add 1-2 new members annually.



CONVENE quarterly (shorter trends meetings x3, longer KSA vote meeting x1)

SCHEDULE time during three shorter meetings for BILT to talk industry trends

INVITE faculty to attend the meetings to hear from employers first-hand

PRIORITIZE a detailed list of entry-level KSAs once a year via a vote

MAP the prioritized KSA list to current curriculum to make sure it aligns

GIVE regular feedback to the BILT regarding how their feedback was used

ASSEMBLE "single-discipline" BILTs rather than large multi-discipline groups

CONVENE QUARTERLY

Avoid "out of sight, out of mind."

Meetings don't always have to be in-person.

Three shorter meetings for trends, one longer meeting for KSAs.



DISCUSS TRENDS

Shorter (not focusing on KSAs) meetings allow time for BILT members to share perspectives on industry trends.

Help keep educators better understand what's coming.





Top 10 skills of 2025



Analytical thinking and innovation



Active learning and learning strategies



Complex problem-solving



Critical thinking and analysis



Creativity, originality and initiative



Leadership and social influence



Technology use, monitoring and control



Technology design and programming



Resilience, stress tolerance and flexibility



Reasoning, problem-solving and ideation

Type of skill

Problem-solving

Self-management

Working with people

Technology use and development

Source: Future of Jobs Report 2000, World Economic Forum

FIVE I.T. TRENDS - Winter 2022





The list below summarizes IT trends discussed by the National CTC's BILT (Business and Industry Leadership Team) at the November 2022 meeting. The purpose of these "trend talks" is to keep faculty - and their students - informed on the ever-evolving IT landscape.

Employability skills remain in demand. Employers aren't interested solely in new hires' technical "hard" skills. Students also need to be nurturing their interpersonal skills, especially when it comes to working within their team and across other teams to find solutions to complex problems. Collaborating, building relationships, and problem solving are all essential skills. As much as students may dislike it, the best way to teach these concepts is through hands-on classroom group work where different personalities and perspectives must come together in pursuit of a single goal.

Learn more: https://www.weforum.org/agenda/2020/10/too-10-work-skills-of-tomorrow-how-long-it-takes-tolearn-them/

Data is increasingly moving to the edge. More and more, there's no time for information to go all the way back to the traditional data center. Decisions and actions have to be made closer to the "edge" in a more distributed fashion. One employer noted that their customers often mistakenly think their cloud is secure based on the cloud provider's security system, but that's only securing the platform. It's up to the customer to take additional steps to secure the workloads and data that's inside the cloud at the edge. Learn more: https://www.redhat.com/en/blog/5-security-considerations-edge-implementations

Certifications can get students past the HR gatekeeper. It's important that students not just take certification classes, but take and pass the cert exam. At larger companies, HR will treat certifications as a filter. That is, if a job posting gets 200 applicants but the managers only want to interview 10 people, HR needs a way to winnow that pool of applicants down. Often, certifications provide the filter. Those with the cert make it to the interview,

those without the cert don't Learn more: https://www.indeed.com/career-advice/career-development/top-it-certifications

Security clearances require a clean drug test. One employer from a large defense contractor stressed how many fantastic, well-paying IT jobs require a security clearance. But if you can't pass a drug test cannot get the clearance. That includes marijuana use, which is not permitted. It's surprising how many otherwise qualified job applicants fail the drug test and don't get the job as a result.

Learn more: https://www.dcsa.mil/Portals/91/Documents/pv/mbi/DCSA_SF-86%20Guide_070621.pdf

Al is becoming "generative." - Rather than task Al with "doing things," now Al will start to create value and develop new insights. That is, Al algorithms increasingly will create new content. Aside from online tools that produce art created by Al programs (https://hotpot.ai/art-generator), generative Al is happening now with pharmaceutical companies formulating new medicines and large defense contractors testing systems and predicting failures based on data rather than actual system performance. This will become more and more common across all industries.

Learn more: https://www.altexsoft.com/blog/generative-ai/



This material is based upon work supported by the National Science Foundation under term has a second supported by the National Science Foundation under term has a second supported by the national second supported by the National Science Foundation.

INVITE FACULTY

Instructors should be in the room to hear first-hand from BILT members.

Faculty available to ask and answer questions.



CONDUCT ANNUAL VOTE

Once a year, BILT members prioritize a detailed list of entry-level KSAs (knowledge, skills, and abilities) for 12-36 months into the future.

The vote and discussion is a structured, repeatable process.

Beware the "rabbit hole" of soft skills.

Talk skills, not course content



	Infrastructure KSAs - updated Summer 2022	(4 =	# v most	green cells ≥ 2.60			
		4	3	2	1	Avg	
	Tasks SPECIFIC THINGS an entry level person would BE EXPECTED TO PERFORM on the job WITH LITTLE SUPERVISION.						
T-1	Configure network, routers, and switches (e.g., higher-level protocols, tunneling).	2	3	1	3	2.44	
T-2	Diagnose network connectivity problem.	4	3	1	1	3.11	
T-3	Install and maintain network infrastructure device operating system software (e.g., IOS, firmware) which would include patch network vulnerabilities to safeguard information.	3	5	0	1	3.11	
T-4	Install or replace network, routers, and switches.	3	4	2	0	3.11	
T-5	Integrate new systems into existing network architecture.	4	4	2	0	3.20	
T-6	Monitor network capacity and performance.	0	7	1	1	2.67	
T-7	Test and maintain network infrastructure including software and hardware devices.	0	6	2	1	2.56	
T-8	Conduct functional and connectivity testing to ensure continuing operability.	2	8	0	0	3.20	
T-9	Implement group policies and access control lists to ensure compatibility with organizational standards, business rules, and needs.	1	7	2	0	2.90	
T-10	Support group policies and access control lists to ensure compatibility with organizational standards, business rules, and needs.	1	7	2	0	2.90	
T-11	Follow SOP and validate/update documentation of compliance.	8	2	0	0	3.80	
T-12	Validate/update baseline system security according to organizational policies.	3	6	1	0	3.20	
T-13	Manage accounts, network rights, and access to systems and equipment.	4	4	2	0	3.20	
T-14	Provide ongoing optimization and problem-solving support.	4	4	1	0	3.33	
T-15	Install, update, and troubleshoot systems/servers.	5	4	1	0	3.40	
T-16	Check system hardware availability, functionality, integrity, and efficiency.	6	3	1	0	3.50	
T-17	Conduct periodic system maintenance including cleaning (both physically and electronically), disk checks, routine reboots, data dumps, and testing.	4	4	2	0	3.20	
T-18	Implement local network usage policies and procedures.	4	5	1	0	3.30	
T-19	Manage system/server resources including performance, capacity, availability, serviceability, and recoverability.	3	5	2	0	3.10	
T-20	Monitor and maintain system/server configuration.	6	3	1	0	3.50	

MAP THE KSAs

Faculty meets to map the prioritized KSA to identify gaps in program curriculum.

Curriculum adjustments are guided by gaps.



Kors	Explanation/Clarification		293	295	151	344	345	241	2.02	127	143	744	2231	304	346	243	347	316	Es
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K-3	Knowledge of how to identify CNC Milling machine and CNC Turning Center components.	3.375	E	E			71001							Ε					
K-4	Knowledge of how to recognize incremental and absolute positioning.	3.250				E	E		E						E	т	Т		
K-5	Knowledge of how to identify the proper coolant, oil, and air supply levels for CNC mills and turning centers.	3.000	E	E										E					

GIVE FEEDBACK

Ensures BILT members feel heard and valued.

Share how you implemented their suggestions.

If you can't do what they ask, tell them – the BILT can sometimes offer solutions.



DIVIDE YOUR BILT

Leverage the know-how of your subject matter experts in their specific discipline.



DIVIDE YOUR BILT

Convene a "super-BILT" for broad program discussions and trends.

Build niche "sub-BILTs" to look at specific KSAs for a discipline area.

BILT MEETINGS EXAMPLE

SPRING Super-BILT trends meeting

NETWORKING BILT PROGRAMMING BILT SECURITY BILT TOGETHER SUMMER Super-BILT trends meeting

NETWORKING BILT PROGRAMMING BILT SECURITY BILT TOGETHER FALL
Three sub-BILT
KSA meetings

NETWORKING BILT

PROGRAMMING BILT

SECURITY BILT

-			- 15
ВШ	siness	Advisorv	Council

May meet once or twice a year

Meets quarterly

May "rubber stamp" existing program

Actively helps faculty improve the program

Faculty may drive meeting agenda

Employers help develop agenda

– especially sharing trends

May only give advice and suggestions Co-leads

Job skills recommendations delivered through discussions

Job skills recommendations created through voting process

May not be highly invested in success of the program

Feels an ownership in the program and its students

May not be kept in the loop on how suggestions implemented

Regularly informed on how suggestions implemented



- Focus on single discipline, not an entire division.
 (Ex: Welding works; overall Manufacturing does not.)
- Compile your BILT target list
- Reach out via email AND phone – it's high-touch
- Companies representative of those who hire your graduates



Need to be able to predict both their **specific** future needs and the **overall** future needs of the industry.

- High-level technical executives
- First-line hiring managers
- Technicians

HR representatives should not be the only rep for the business.

Mindful of DEI.

Faculty are ex-officio; they listen and ask questions



DIVERSITY ON THE BILT

- Highly desirable for the companies to hire Associate level students and be local/regional
- Consider diversity measures such as gender, ethnicity, etc.
- Various types and sizes of companies
- Types of jobs within those companies, both now and in the future
- Desirable to have BILT members able to predict future needs



BILT MEMBERS ARE...

- Qualified as subject matter experts for your program
- Dedicated to co-leading
- Have a WIIFM that is addressed

TIP: Recruit enough to have a minimum of 8-10 members attend your meetings – good rule of thumb is that half of your RSVPs will not show up



RECRUITING EMPLOYERS

SUBJECT MATTER EXPERTISE

Mandatory for the KSA meetings

How to gauge that expertise?

- Ask
- Check out LinkedIn profiles
- Get referrals from those you know (your employer team member on this project, for example)
- And, don't forget existing Advisory Council Members should not be fired!



RECRUITING EMPLOYERS

TIME COMMITMENT

- Are they available to participate for the quarterly meetings?
- How much do they need YOUR work to accomplish their own goals?

TIP: BILT members may need to miss one or more meetings in a year. Most important meetings are the KSA analysis meeting and the Feedback meeting



RECRUITING EMPLOYERS

COMPILING LIST OF CANDIDATES

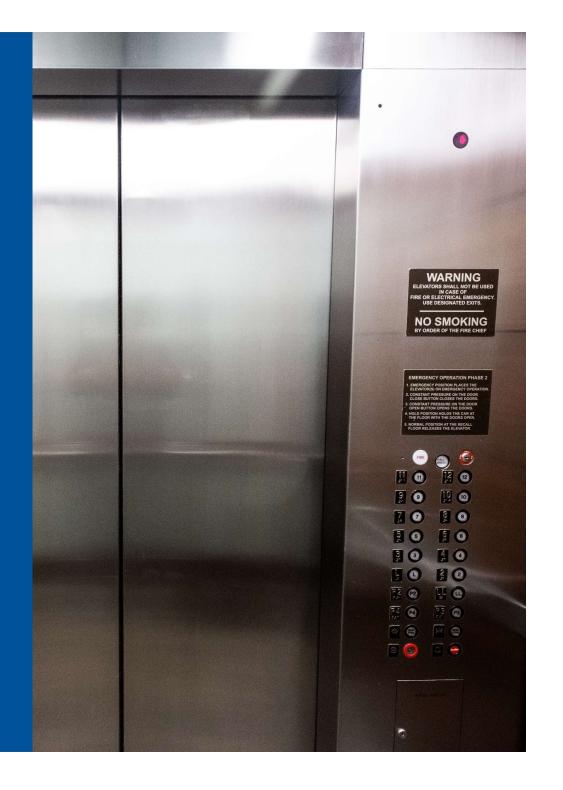
- Current Advisory Council members
- Supportive community organizations:
 - Chambers of Commerce
 - Economic Development Corporations
 - Workforce Boards
 - Trade Associations
- Contact your supervisor for guidance on working with others at the college whose focus is employers



DETERMINE THE ASK

Best pitches are only 4-5 sentences and describe:

- Your program
- Why you need employer SMEs
- What you need them to do and how long it will take
- Potential WIIFM for them (can vary)
- Close by asking for participation



SAMPLE PITCH

We at (your college name) want to align a program in (program name) with employer demand in our area, and we are adopting the Business & Industry Leadership Team (BILT) Model for our advisory council. The BILT is a proven model that puts area employers in a co-leadership role for our programs.

We invite (business rep name or their company) to become part of our BILT team to guide our curriculum so that the knowledge and skills of our graduates better-align with your needs for job candidates.

Could you join us for a virtual orientation session in February or March (date TBD) to learn more about our BILT and how your participation may be beneficial? We will meet no longer than an hour.

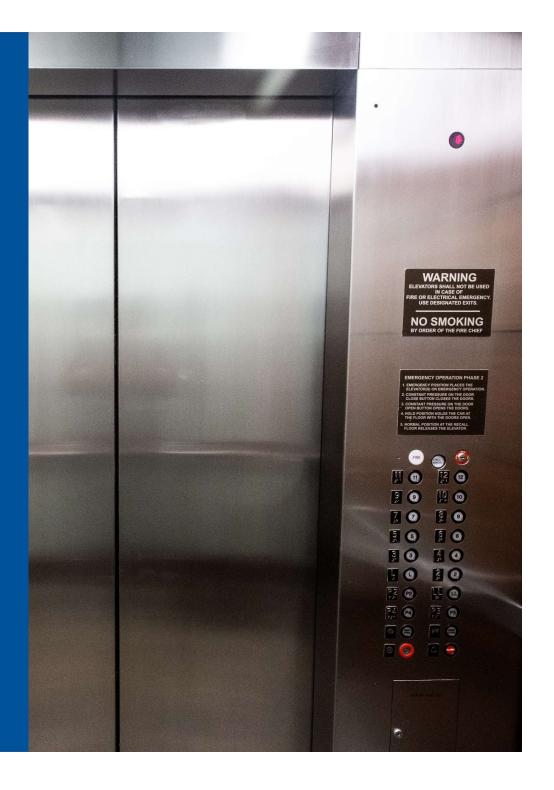
Brainstorm to determine possible objections and responses

Have a few questions to address other WIIFMs such as...

Would your company benefit from a trends discussion with other key employers in our area?

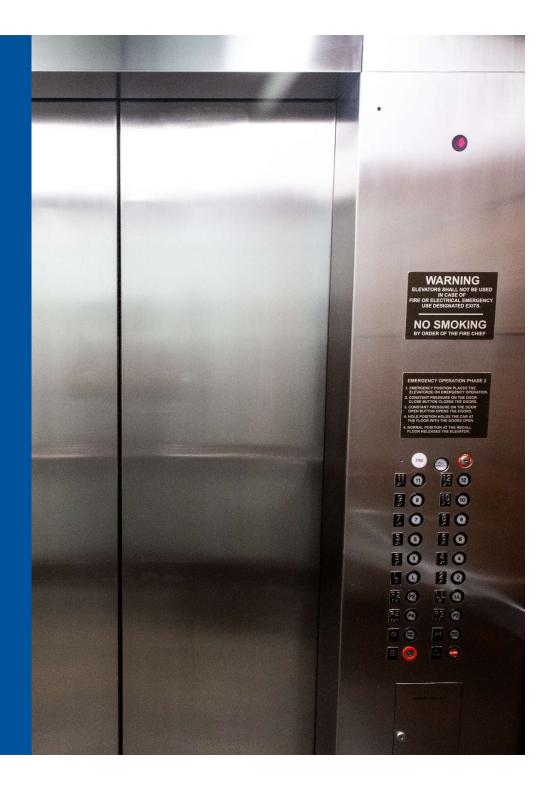
SUGGESTIONS

 Customize the pitch for each constituent – address the value of your work from the listener's POV



SUGGESTIONS

- Adjust the pitch for new programs
 - Very similar, but rather than updating and augmenting a Business Advisory Council, you'll be starting from scratch
 - Definitely need clear picture of labor market demand before recruiting BILT members



SAMPLE FLEVATOR PITCH

We at <u>(your college name)</u> want to align a program in <u>(program name)</u> with employer demand in our area, and we are adopting the Business & Industry Leadership Team (BILT) Model for our advisory council. The BILT is a proven model that puts area employers in a co-leadership role for our programs.

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EXTERNAL TO THE COLLEGE **INSIDE** THE COLLEGE





EXTERNAL TO THE COLLEGE

Workforce Boards, Economic Development Corporations, and Trade Associations typically want...

- More workers in a job area
- More qualified workers in a job area
- To at least listen in on the KSA and trends meetings



EXTERNAL TO THE COLLEGE

Approach external stakeholder to assist with BILT recruitment

Ask for "Warm" email or phone introductions or referrals to potential BILT Members

- Workforce Board
- Chamber of Commerce
- Economic Development Corporations
- Associations in the discipline

TIP: Invite external stakeholders to attend BILT meetings as observers workers in a job area



INSIDE THE COLLEGE

Administrators are often motivated by enrollment numbers

Other faculty want to teach relevant content and want to be involved too once they understand the value of the process

Staff benefit from seeing how you've positioned your program to be more responsive to the community



INSIDE THE COLLEGE

Recruit and inform internal stakeholders by customizing your pitch

- Other Faculty
- Faculty Chair
- Dean and/or Associate Dean
- Vice President of Workforce
- President
- Trustees? (President makes this contact in most cases)



INSIDE THE COLLEGE

Potential elevator pitch for a Vice President

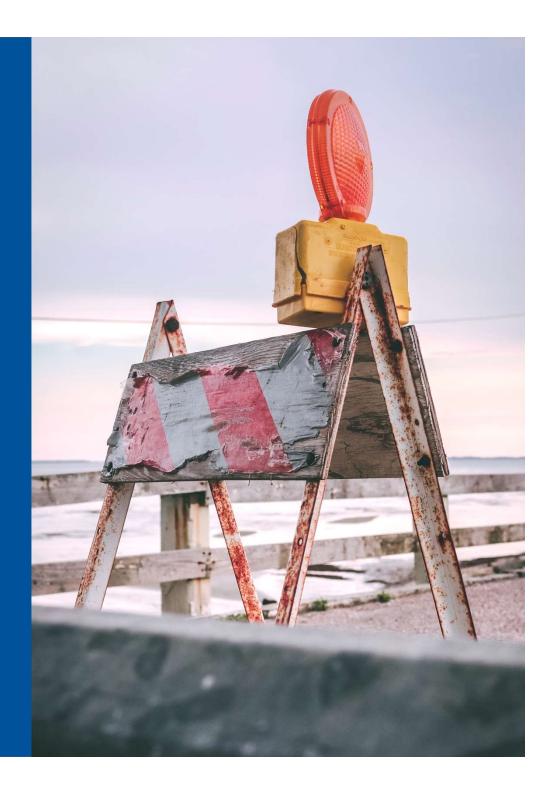
Good to see you Vice President Smith. I'd like you to know about work we're doing to strengthen our Welding program and better align it with employer needs. We are implementing the Business & Industry Leadership Team (BILT) model that puts employers in a co-leadership role to guide our curriculum. This model has shown positive results at colleges across the country.

We are expanding our advisory council to include future-focused welding subject matter experts from local companies. They will participate in a structured KSA analysis process to identify the knowledge, skills, and abilities our graduates should possess 12-36 months from now. Faculty will align and update our curriculum to make sure it addresses these industry priorities. We're excited about deepening employer engagement to strengthen the program so we can increase enrollments and meet local workforce needs.

Ask for what you need from Vice President Smith [here].

GROUP ACTIVITY

YOUR ELEVATOR PITCH



BILT PANEL

Matt Glover, Yern

Kyle Jones, Sinclair Community College

Pete Maritato, Suffolk County Community College

Kim Yohannan, Alteryx



BACKGROUND AND CONTEXT

- Created by NSF ATE Convergence Technology Center
- Uses PCAL7 (Performance Criteria AnaLysis) process developed by US Air Force
- Prioritizes the Knowledge, Skills, and Abilities (KSAs) businesses will need in entry-level workers 12-36 months into the future
- Consensus is not the goal
- Results of prioritization help faculty align curriculum to workforce needs



Start with a pro forma list, not a blank wall.

Give the BILT something to respond to – they will edit, add, and delete after they vote.



PRO FORMA LIST CREATION part 1

- Compile pro forma KSAs and Tasks for employer evaluation using a variety of existing skill standards (e.g. NICE and NIST, associations associated with the industry, Career OneStop, and various state standards) – no reinvention of the wheel
- Remove any duplicated items from the list
- A starting point that provides metrics for discussion a best estimate of knowledge/skills



PRO FORMA LIST CREATION part 2

- Approximately 70-150 of mostly knowledge and skills
- Enter identified KSAs into template spreadsheet and check for duplications
- Create an online Google Form that is linked to a Google Sheet

The National CTC has created "how to" documents and videos





SCHEDULING

- Ensure a non-biased facilitator can be there for KSA meeting
- Invite employers once the date is set
- Remember this meeting is longer: approx. 2-2.5 hours



ON-SITE and HYBRID LOGISTICS

Audio Visual capability Screen(s)

Sound system, including microphones

Conference phone

Wireless Internet access

- Room set with employers in U-shape
- Catering or at least coffee/water
- Convenient location for those who will be face-to-face
- Ensure attendees have devices compatible for electronic voting



Welcome from the program lead's supervisor or above as well as the lead

Self-introductions of all in the room and on the web meeting

Brief explanation of the BILT approach and how to vote

The voting link for KSA +Ts and expected time allowed

Discussion and Q&A (the bulk of the meeting)

Discuss next steps on Faculty Cross Reference

Schedule next meeting to provide feedback to BILT

INVITATIONS

Send a calendar invitation with meeting details via email that includes

- WIIFM (value proposition)
- Whether or not there will be food
- Whether the meeting will be face-to-face or virtual or both (suggest both)
- Whether or not they need to bring a laptop or tablet for voting if on site



TIMELINE FOR INVITATION FOLLOW-UP

Phone those who have not responded about 1 week after invitation sent to talk with them and ask them to attend

1 week in advance of KSA mtg and again 1 day in advance, send a reminder to all (except those who have declined) with...

- Agenda
- Meeting connection info (if supporting hybrid)
- Map and parking instructions



AT LEAST ONE WEEK IN ADVANCE

Convert spreadsheet to voting form

- Ensure you are satisfied with the KSAs pro forma KSAs prior to changing it into the linked Google Form/Sheet (changes often require starting over)
- Convert spreadsheet to KSA voting form/sheet for upcoming KSA mtg using the video and instructions or seeking help from ITSS member
- Have staff members vote to test the form (their votes can be removed)



MEETING ROLES

Industry Subject Matter ExpertsParticipate in ratings and discussion

Faculty Subject Matter Experts
Attend as active listeners

Facilitator

Process expert responsible for efficiency & effectiveness of meeting

Recorder/Minute-taker
Records discussion & prepares
meeting minutes (Zoom recording)

Tados Trados Tornamentos en de Managora de

KSA Spreadsheet Editor if available

KSA RANKINGS

- 4 The KSA must be included in the curriculum
- **3** The KSA really should be included in the curriculum
- 2 It would be nice for the KSA to be included in the curriculum
- 1 The KSA can be left out of the curriculum entirely

This 1-4 ranking criteria considers the following together:

- Importance
- Level of proficiency
- Time spent doing the skill
- Difficulty how difficult is the skill to learn?

TWO KEY ELEMENTS OF THE MEETING

VOTING is an essential part of the meeting, but...

DISCUSSION is just as important

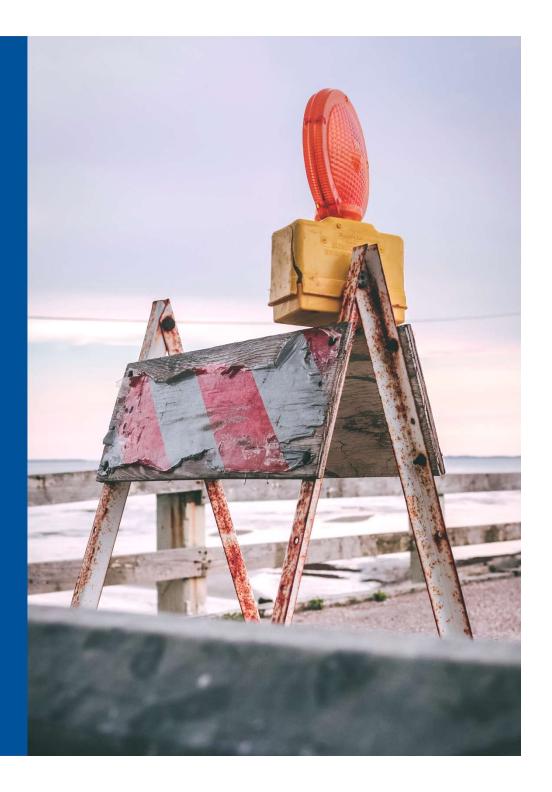
BILT members and the Facilitator can ask clarifying questions



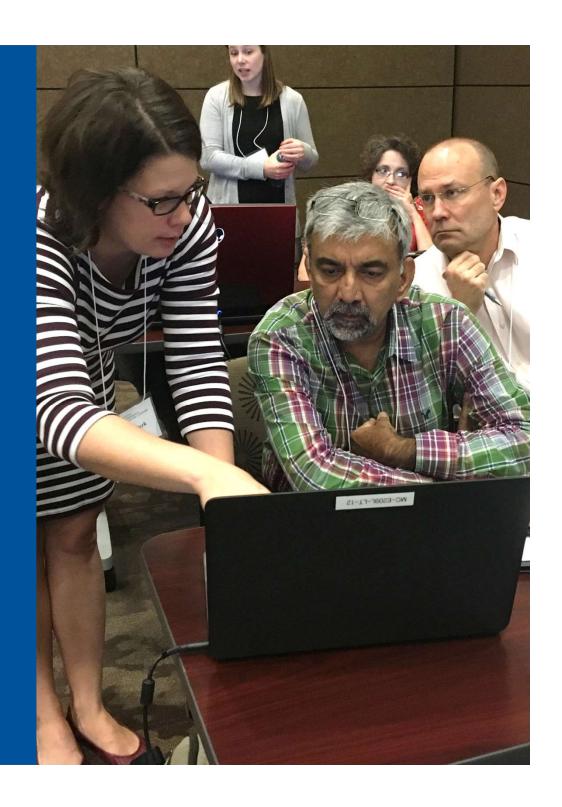
GROUP ACTIVITY

KSA VOTING PRACTICE





FACULTY CROSS REFERENCE



FACULTY CROSS REFERENCE

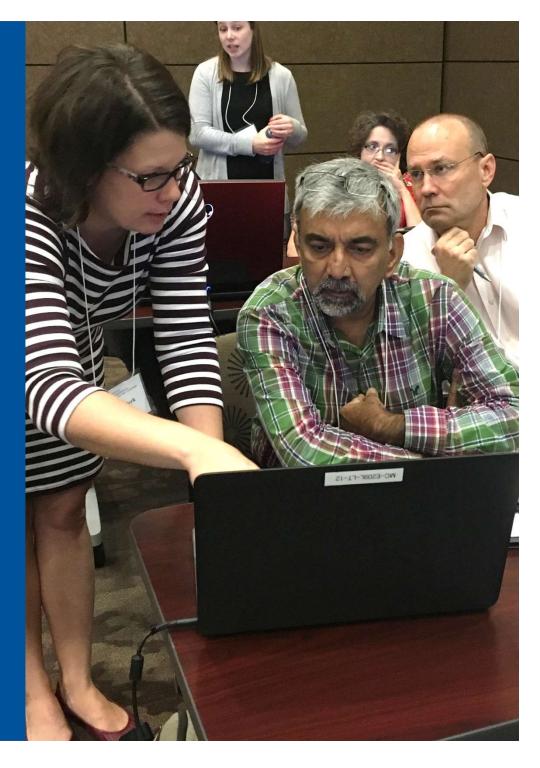
GUIDELINES

- Involve all faculty teaching in the program under consideration.
- Determine the KSA "cutoff" value (usually 2.6 to 3).
- For each KSA ranked above the cutoff, consider each course in the program one at a time and mark:

"E" for exposure coverage

"T" for thorough coverage

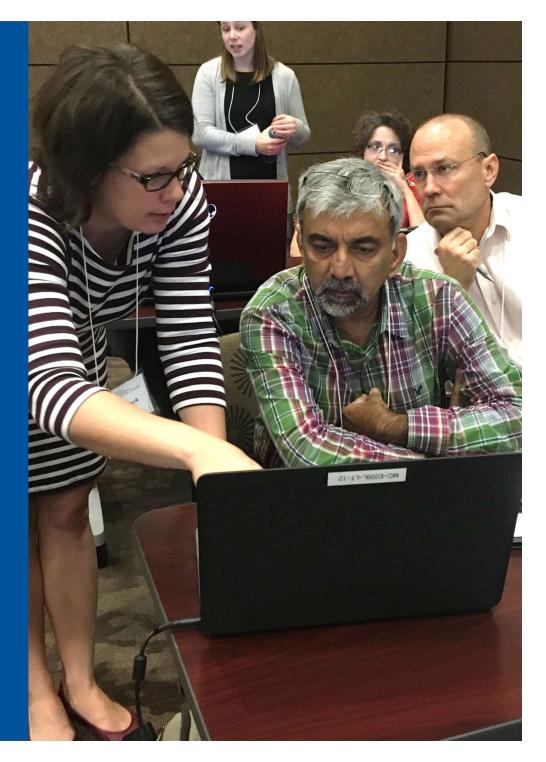
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FACULTY CROSS REFERENCE

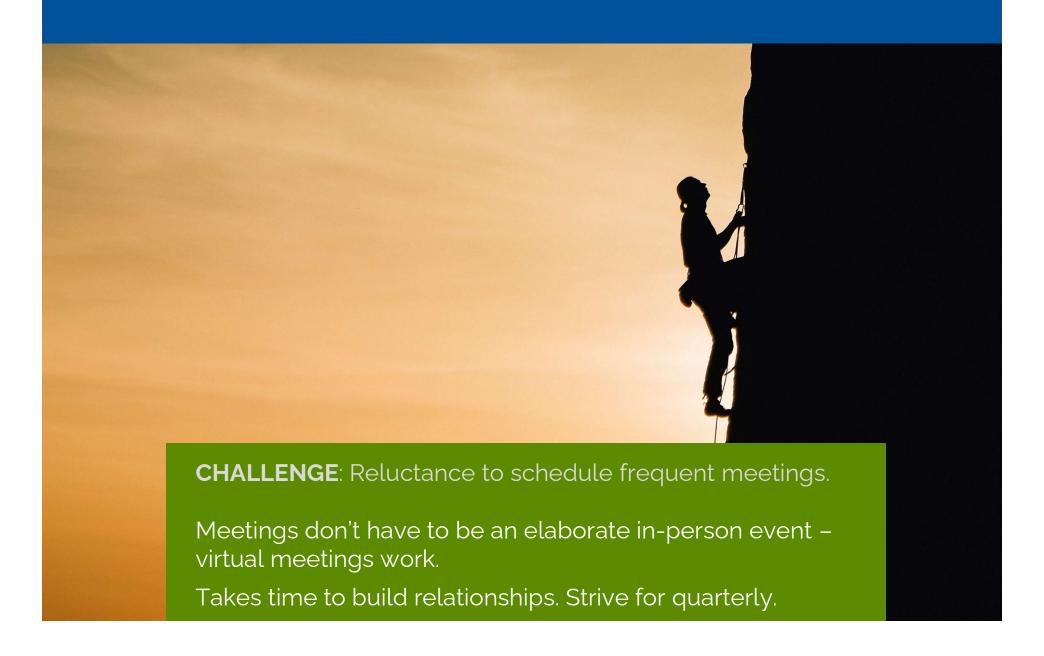
FEEDBACK FORMS

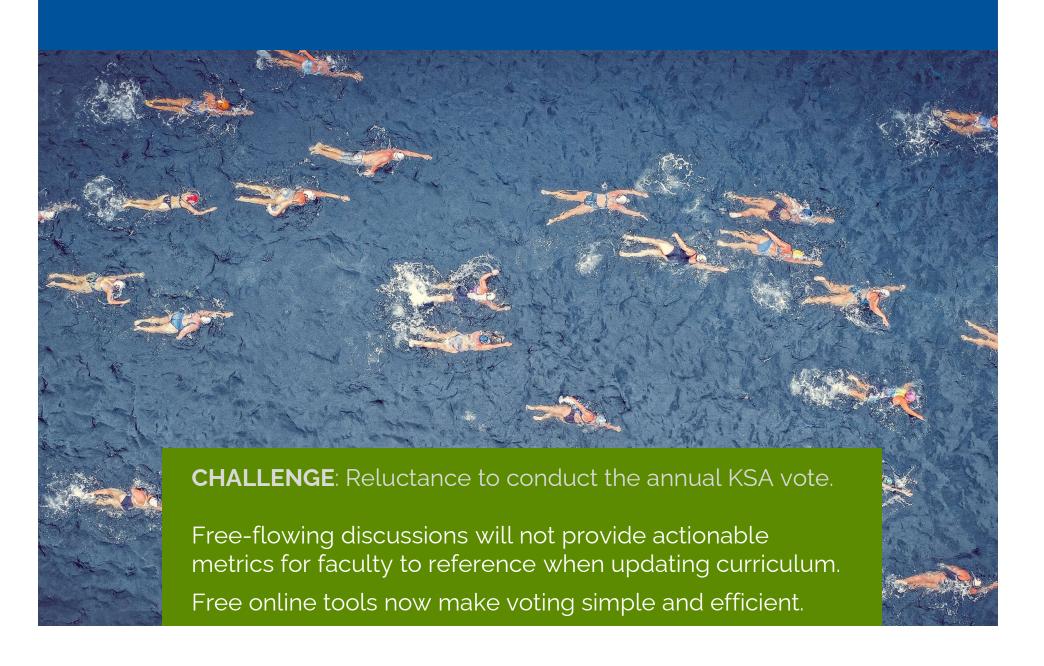
- Cross-reference file showing "E" and "T" indicators for prioritized KSAs
- Highlight rows showing only "E" coverage with light tan, and highlight rows with no coverage in red.
- Feedback form for program with multiple certificates and/or degrees

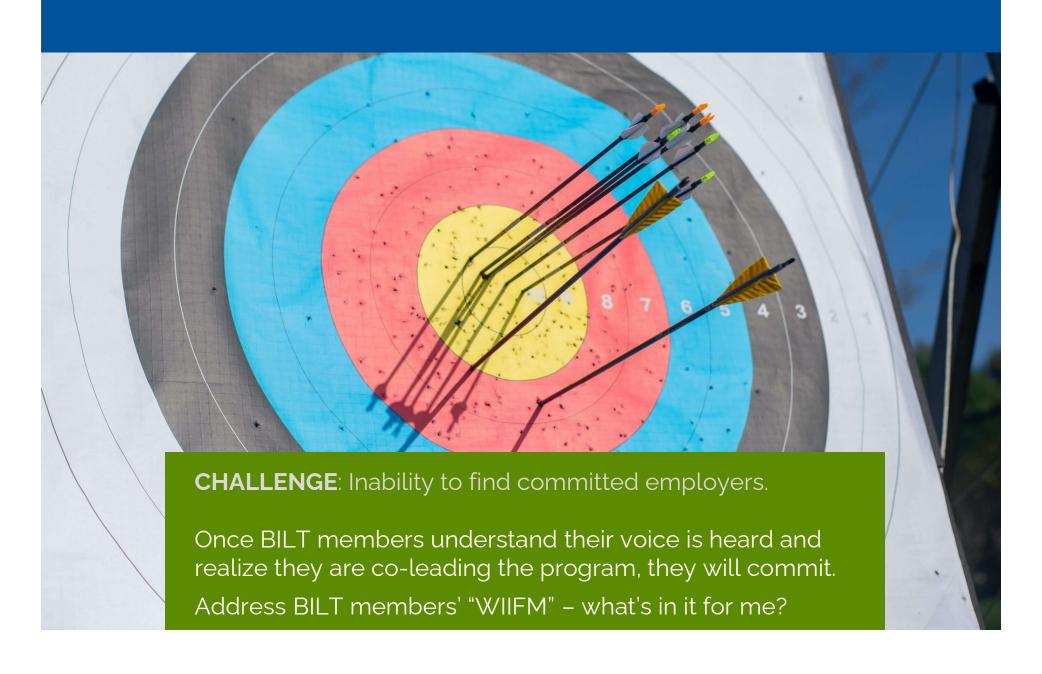


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WHAT WE LEARNED

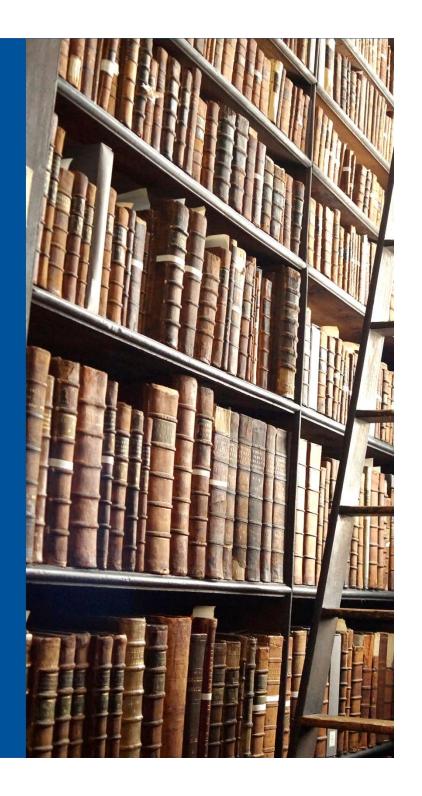
- The essential elements of the BILT model
- Key differences between business advisory councils and BILTs
- Strategies to recruit employers (and other stakeholders) to embrace and adopt the BILT
- Best practices for planning and hosting the annual KSA meeting
- How the online KSA vote works
- Steps for cross-referencing KSA vote results with curriculum
- Ways to overcome common BILT implementation challenges



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RESOURCES

Implementing the BILT Model of Business Engagement





SURVEY

https://forms.gle/LySaDsF6MnANPASRA





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