

# TMC Works Training Menu: STEM Ambassador

## TMC Works STEM Ambassador essential trainings (9 hours):

- Complete the “[TMC Works STEM Ambassador Orientation Learning Pathway](#)” on ION’s Learning Academy (1.5 hours). In this orientation, you will:
  - Register for the program
  - Learn the history and goals of the program
  - Hear an overview of your role and responsibilities
  - Think about what it takes to prepare and lead STEM activities
  - Explore educational resources that will help you prepare and lead STEM activities
- Attend a 3-hour live training session (or three 1-hour trainings) with your STEM Supervisor. In this training, you will:
  - Write and use lesson goals to facilitate STEM activities
  - Choose and prep a STEM activity
  - Facilitate a STEM activity using the experiential learning model
  - Practice assessing and reflecting on the quality of your STEM activity
- Complete the “[STEM Ambassador Essential Trainings Learning Pathway](#)” (4.5 hours). In this pathway, you will:
  - Complete a course on STEM/STEAM Education
  - Complete a course on preparing to lead STEM education
  - Make a draft training plan for your remaining 11 hours of training

## TMC Works asynchronous trainings (11 hours):

- Choose trainings based on professional interests or self-identified opportunities for growth.
- STEM Supervisors can assign Ambassadors specific trainings based on opportunities for growth observed during the course of the program.
- Training is tracked in the Idaho Out-of-School Network’s Learning Academy
- Certificates of completion for trainings taken on other platforms must be uploaded to individual’s Learning Academy transcript.
- Better Kid Care classes: use code “APAH9F” to pay for courses

TMC Works Training Menu		
Topic	Learning Goal	Training Choices
TMC community engagement	Participate in the Think Make Create community of practice in order to learn more about STEM education from peers	<ul style="list-style-type: none"> <li>Attend TMC Shop Talk, a one-hour, monthly videoconferencing call with TMC Labs users. Email Claire at <a href="mailto:csponseller@uidaho.edu">csponseller@uidaho.edu</a> to receive a calendar invitation and be added to the email list.</li> <li>Attend the Idaho Out-of-School Network's annual conference, the Power Up! Summit on September 18 and 19, 2024 in Boise. Find more information and register <a href="#">HERE</a>.</li> <li>Participate in the TMC Works Youth Council. Email Amy at <a href="mailto:apost@jannus.org">apost@jannus.org</a> for more information.</li> </ul>
STEM Facilitation Reflection	Reflect on and learn from your experience of facilitating a STEM activity	<ul style="list-style-type: none"> <li>1-2 hrs</li> <li>Video yourself facilitating a STEM activity, and/or have a STEM Supervisor observe you</li> <li>With a STEM Supervisor, watch the video (optional) and score yourself using the STEM Facilitation Quality Checklist to identify the following: <ul style="list-style-type: none"> <li>2-3 strengths</li> <li>1-3 opportunities for growth</li> <li>Make a plan to incorporate strengths and opportunities into future facilitation</li> <li>Identify online trainings that could help you accomplish this plan</li> </ul> </li> </ul>
Choosing activities	Choose interesting and intentional STEM activities.	<p><b><u>Selecting STEM Activities</u></b></p> <ul style="list-style-type: none"> <li>2 hours</li> <li>Use code "APAH9F" to pay for course</li> <li>Platform: Better Kid Care (account required)</li> <li>Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>Topics: criteria for quality activities, analyzing and adapting activities for different developmental levels and ages, plan how to use activities</li> <li>Audience: front-line staff</li> </ul> <p><b><u>Sparking Interest in STEM</u></b></p> <ul style="list-style-type: none"> <li>2 hours</li> </ul>

		<ul style="list-style-type: none"> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: getting kids interested in STEM and fostering excitement</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Intentional Program Design (Idaho Building Blocks for Quality #1)</u></b></p> <ul style="list-style-type: none"> <li>• 1 hour</li> <li>• Platform/proof of completion: ION's Learning Academy</li> <li>• Topics: identifying desired outcomes, connecting activities to these goals</li> <li>• Audience: OST educators and program directors/coordinators</li> </ul>
Prepping activities	Preparing materials and space for STEM activities	<p><b><u>Preparing yourself to Facilitate STEM</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: methods for prep, STEM methods, STEM learning processes, informal environments</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Maximizing STEM Space</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: arrange materials and maximize physical space in OST programs to maximize learning</li> <li>• Audience: front-line staff</li> </ul>

<p>Reflect and apply</p>	<p>Incorporate reflection and real-world/future connections into STEM activities.</p>	<p><b><u>Connecting to STEM Careers</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: Exposure to careers, role models, connecting activities to careers</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Minds-On Learning—Reflecting and Processing in STEM</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: strategies for helping youth reflect on their learning, guiding discussions</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Connected Learning</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: connecting experiences to prior learning, optimal learning experiences</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Nurturing STEM Identity and Making Career Connections</u></b></p> <ul style="list-style-type: none"> <li>• 6 hours, live attendance required</li> <li>• Prerequisite: ACRES course "Asking Purposeful Questions"</li> <li>• Platform: ACRES</li> </ul>
--------------------------	---	---

		<ul style="list-style-type: none"> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: connecting youth to their role in STEM</li> <li>• Audience: afterschool front-line staff</li> </ul>
<p>Group management</p>	<p>Practice positive group and behavior management.</p>	<p><b><u>Group Management During STEM</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code “APAH9F” to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: positive group management, techniques for managing groups, transitions</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Embracing Active STEM Learning</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code “APAH9F” to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: making STEM activities more physically active to increase engagement</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>It Takes Two! Encouraging Collaborative STEM Work</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code “APAH9F” to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: science is collaborative and requires teamwork</li> <li>• Audience: front-line staff</li> </ul>

		<p><b><u>Building Relationships with Children and Youth</u></b></p> <ul style="list-style-type: none"> <li>• 2 hrs</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> <li>• Topics: building positive, meaningful relationships with children</li> <li>• Audience: any coach or supervisor</li> </ul> <p><b><u>Effective Communication with Children and Youth</u></b></p> <ul style="list-style-type: none"> <li>• 2 hrs</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> <li>• Topics: engaging children, checking for understanding</li> <li>• Audience: any coach or supervisor</li> </ul>
<p>Equitable access</p>	<p>Include all learners and practice equity in STEM activities</p>	<p><b><u>STEM Equity Educators’ training</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Platform: Techbridge Girls (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: equity, belonging, identity, power dynamics</li> <li>• Audience: all educators</li> </ul> <p><b><u>Including Children and Youth With Disruptive Behaviors</u></b></p> <ul style="list-style-type: none"> <li>• 2 hrs</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> <li>• Topics: reduce time managing disruptive behavior with effective management</li> <li>• Audience: any coach or supervisor</li> </ul> <p><b><u>Supporting Historically Marginalized Youth in STEM</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code “APAH9F” to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> </ul>

		<ul style="list-style-type: none"> <li>• Topics: societal barriers for marginalized youth, kids like STEM and they need exposure, representation, lack of resources</li> <li>• Audience: all educators, program managers/administrators</li> </ul>
<p>Youth voice &amp; choice</p>	<p>Promote youth voice and choice in STEM activities.</p>	<p><b><u>Giving Youth Control</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: youth self-determination, goal setting and decision making, encouraging youth creativity and exploration</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Youth Voice, Leadership, and Engagement (Idaho Building Blocks for Quality #3)</u></b></p> <ul style="list-style-type: none"> <li>• 1 hour</li> <li>• Platform/proof of completion: ION's Learning Academy</li> <li>• Topics: empowering youth and giving them purpose through involvement in programming</li> <li>• Audience: OST educators and program directors/coordinators</li> </ul> <p><b><u>Elevating Youth Voice and Choice</u></b></p> <ul style="list-style-type: none"> <li>• 6 hours, live attendance required</li> <li>• Prerequisite: ACRES course "Asking Purposeful Questions"</li> <li>• Platform: ACRES</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: incorporating youth input into STEM activities</li> </ul>

		<ul style="list-style-type: none"> <li>• Audience: afterschool front-line staff</li> </ul>
<p>Science and engineering practices</p>	<p>Incorporate science and engineering practices and/or the engineering process into STEM activities.</p>	<p><b><u>Modeling Science and Engineering Practices</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: Inquiry, engineering design, flexible thinking, stages of discovery and invention</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Developing a Science and Engineering Identity</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: identity contributes to future careers, growth vs. fixed mindset</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Facilitating Engineering Practices (ACRES)</u></b></p> <ul style="list-style-type: none"> <li>• 6 hours, live attendance required</li> <li>• Prerequisite: ACRES course "Asking Purposeful Questions"</li> <li>• Platform: ACRES</li> <li>• Proof of completion: Upload certificate or transcript into ION's Learning Academy</li> <li>• Topics: using and modeling the engineering design process</li> <li>• Audience: afterschool front-line staff</li> </ul> <p><b><u>Facilitating Science Practices (ACRES)</u></b></p> <ul style="list-style-type: none"> <li>• 6 hours, live attendance required</li> </ul>



		<ul style="list-style-type: none"> <li>• Prerequisite: ACRES course “Asking Purposeful Questions”</li> <li>• Platform: ACRES</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: Ensuring students are learning science practices when they do hands-on activities</li> <li>• Audience: afterschool front-line staff</li> </ul> <p><b><u>Make Math Engaging</u></b></p> <ul style="list-style-type: none"> <li>• 6 hours, live attendance required</li> <li>• Prerequisite: ACRES course “Asking Purposeful Questions”</li> <li>• Platform: ACRES</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: strategies for building number sense and problem solving skills in youth</li> <li>• Audience: afterschool front-line staff</li> </ul>
<p>Inquiry and problem-solving</p>	<p>Incorporate inquiry and problem-solving into STEM activities.</p>	<p><b><u>Creating a Safe Space for STEM Learning</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code "APAH9F" to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: supporting students’ learning processes, encouraging trial and error, supportive environments, give and receive constructive criticism, resolve conflicts, accepting mistakes</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Helping Learners Develop and Expand STEM Explanations</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code “APAH9F” to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> </ul>

		<ul style="list-style-type: none"> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: teaching kids to collect data and develop explanations of data/finding</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Asking Purposeful Questions (Click2Science)</u></b></p> <ul style="list-style-type: none"> <li>• 2 hours</li> <li>• Use code “APAH9F” to pay for course</li> <li>• Platform: Better Kid Care (account required)</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: asking different types of questions to help students analyze and problem-solve</li> <li>• Audience: front-line staff</li> </ul> <p><b><u>Asking Purposeful Questions (ACRES)</u></b></p> <ul style="list-style-type: none"> <li>• 6 hours, live attendance required</li> <li>• Platform: ACRES</li> <li>• Proof of completion: Upload certificate or transcript into ION’s Learning Academy</li> <li>• Topics: asking different types of questions to help students analyze and problem-solve</li> <li>• Audience: afterschool front-line staff</li> </ul>
Job Search Skills	Find a job/career where you will succeed	<p><b><u>Resume Writing</u></b></p> <ul style="list-style-type: none"> <li>• 1 hr, 30 minutes</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> <li>• Topics: how to write a resume, make it stand out, different types of resumes</li> <li>• Audience: people in the job market</li> </ul> <p><b><u>Cover Letters</u></b></p> <ul style="list-style-type: none"> <li>• 1 hr</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> </ul>

		<ul style="list-style-type: none"> <li>• Topics: how to write a cover letter to accompany a resume</li> <li>• Audience: people in the job market</li> </ul> <p><b><u>Job Searching and Networking</u></b></p> <ul style="list-style-type: none"> <li>• 1 hr, 30 minutes</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> <li>• Topics: job search strategies, using technology to look for a job, personal brand, professional network</li> <li>• Audience: people in the job market</li> </ul> <p><b><u>Interviewing Skills</u></b></p> <ul style="list-style-type: none"> <li>• 1 hr</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> <li>• Topics: how to prepare for an interview, different types of interviews, etiquette, how to stand out, how to choose and decline, what kinds of questions interviewers can ask</li> <li>• Audience: people in the job market</li> </ul>
Workplace Skills	Develop skills to help you succeed in a job and career	<p><b><u>Creativity and Innovation: Creative Thinking Basics</u></b></p> <ul style="list-style-type: none"> <li>• 1 hr, 20 minutes</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> <li>• Topics: define creative thinking, identify steps in creative process</li> <li>• Audience: OST educators and program directors/coordinators</li> </ul> <p><b><u>Learning Tips: How to Enjoy Learning</u></b></p> <ul style="list-style-type: none"> <li>• 30 minutes</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> <li>• Topics: how the brain processes, stores and remembers information; how to learn from your mistakes and enjoy learning; study tips</li> <li>• Audience: OST educators and program directors/coordinators</li> </ul> <p><b><u>Business Problem Solving: Critical Thinking and Information Analysis</u></b></p> <ul style="list-style-type: none"> <li>• 1 hr., 20 minutes</li> <li>• Platform/proof of completion: ION’s Learning Academy</li> </ul>

- Topics: using logic and reasoning to analyze information, quantitative and qualitative analysis techniques
- Audience: people in the workplace

### **Business Problem Solving: Problem-Solving Basics**

- 1 hr., 20 minutes
- Platform/proof of completion: ION's Learning Academy
- Topics: using the problem-solving process, different approaches
- Audience: people in the workplace

### **Advanced Interpersonal Communication: Communication Styles and Methods**

- 45 minutes
- Platform/proof of completion: ION's Learning Academy
- Topics: identifying primary and secondary communication styles, using verbal and non-verbal communication
- Audience: people in the workplace

### **Advanced Interpersonal Communication: First Impressions and Building Rapport**

- 40 minutes
- Platform/proof of completion: ION's Learning Academy
- Topics: elements that make a first impression, how to build rapport, credibility and positive relationships
- Audience: people in the workplace

### **Skill Path: Technology and Digital Literacy**

- Up to 8 hrs (6 courses available)
- Platform/proof of completion: ION's Learning Academy
- Topics: computer basics, email and more, cybersecurity, zoom/videoconferencing
- Audience: people who are developing basic computer skills

<p>Media Literacy</p>	<p>Find and evaluate the credibility of information from various media sources in order to answer their own and student's questions</p>	<p><b><u>Digital Media Literacy</u></b></p> <ul style="list-style-type: none"> <li>• 1 hr., 30 minutes</li> <li>• Platform/proof of completion: ION's Learning Academy</li> <li>• Topics: recognize the quality and reliability of online sources; identify clickbait, sponsored content, and targeted advertising in the media; differentiate between fact and opinion in the media; recognize the relationship between society and social media</li> <li>• Audience: anybody</li> </ul>
<p>Career exploration</p>	<p>Gain exposure to and explore future career options.</p>	<p><b><u>Beginning a New Career</u></b></p> <ul style="list-style-type: none"> <li>• 30 minutes</li> <li>• Platform/proof of completion: ION's Learning Academy</li> <li>• Topics: choosing and changing careers, evaluating yourself</li> <li>• Audience: OST educators and program directors/coordinators</li> </ul> <p><b><u>Next Steps Idaho:</u></b></p> <ul style="list-style-type: none"> <li>• Create a profile</li> <li>• Complete at least 6 of the "<a href="#">Self-Assessments and Planning Tools</a>"</li> <li>• Upload the PDF results as "certificates" in the learning academy</li> <li>• Earn 1 hour for 6 assessments</li> </ul>