Professional Learning Program Examples

Code.org is excited to launch a new framework for professional learning that allows for customized workshops and sustained implementation supports that are tailored to the specific needs of regions, districts, and educators. This document represents three example program models, showcasing how the tools and resources can be combined and customized to meet diverse educational goals while also enhancing the adoption of ongoing implementation of Code.org's curriculum. By utilizing the new professional learning framework, there are a multitude of possibilities for successful implementation of computer science education using Code.org.

Example #1: District-based CS Discoveries for 7th Grade CS

and Tech Educators (Thanks to the Friday Institute for Inspiring this Design)

Curriculum	Computer Science Discoveries (7th Grade)
Audience	 7th grade computer Science and Technology educators in a large school district. 50% are familiar with Code.org 50% are new Code.org
Implementation Goal	CSD will be offered in 75% of middle schools within the district.
PL Resource(s) Utilized	 Getting Started with Code.org Self-Paced Module Slide Template Teaching CS Discoveries Self-Paced Module Self-Paced Module Slide Template Teaching Interactive Animations and Games Self-paced Module Slide Template Teaching Interactive Animations and Games Self-paced Module Slide Template Teaching Interactive Animations and Games Self-paced Module Slide Template

Program Modality(ies)	 Self-paced Module Slide template Equity in Computer Science Education Self-paced Module Slide template Slide template Reflection Prompt Guide Asynchronous independent work In-person workshop Virtual workshop Facilitator-hosted office hours
Program Model	 In-Person synchronous workshop (3-hours): Pre-Work: Complete Getting Started with Code.org Self-Paced Module Introduction to Getting Started with Code.org Introduction to Teaching Computer Science Discoveries Post-workshop asynchronous work: Complete Teaching Computer Science Discoveries Self-Paced Module. Facilitator-Hosted, Optional, Office Hours (1-hour) Hosted weekly Virtual Workshop #1 (1-hour): Pre-Work: Watch model lesson Deep-dive into Interactive Animations and Games - Unit 3 CSD. Post-workshop asynchronous work: Complete Interactive Animations and Games - Unit 3 Self-Paced Module Virtual Workshop #2 (1-hour): Pre-Work: Complete AI and Machine Learning self-paced module Deep-dive into CSD Unit 7: AI and Machine Learning

	 Pre-Work: Complete Equity in Computer Science Education Self-Paced Module Deep-dive into Equity in Computer Science Education Virtual Synchronous Workshop (1.5 hours): Pre-Work: Updated or new lesson plan based on the new curriculum learned. Presentation and feedback of artifact Planning for the future Deliverable Proof of Learning: Updated or new lesson plan
Cost Considerations:	 based on the new curriculum learned Design of the Program Model based on district/educator needs Facilitator(s)Travel Facilitator(s) Preparation + Hosting of In person workshop Facilitator(s) Preparation + Hosting of virtual workshops Facilitator(s) hosting optional hours Event Logistics and Operations

Example #2: Multi-district CS Connections for 3-5th Grade Media Specialists

Curriculum	Computer Science Connections (grade K-5)
Audience	 K-5 Media Specialists from multiple small school districts in a region Educators with limited-to-no prior Code.org Experience
Implementation Goal	75% of participants implement CSC with activity from 75%

	of students.
PL Resource(s) Utilized	 Getting Started with Code.org Self-Paced Module Slide Template Teaching Computer Science Connections Self-Paced Module Self-Paced Module Slide Template Teacher-Facing Reflection Prompt Guide
Program Modality(ies)	 Asynchronous independent work In-person workshop Virtual Community of Practice Sessions
Program Model	 In-Person synchronous workshop (3-hours): Pre-Work: Complete Getting Started with Code.org Self-Paced Module Pre-Work: Watch model lesson of Coding Book Covers Introduction to Getting Started with Code.org Introduction to Computer Science Connections Deep Dive into Coding Book Covers Post Workshop Asynchronous Work: Complete Computer Science Connections Self-Paced Module (Optional) Virtual Communities of Practice: Hosted virtually - meeting set-up/scheduled by the Regional Partner No formal facilitation Guided by prompts from Teaching Facing-Reflection Prompt Guide Deliverable Proof of Learning: Curriculum map that shows integration of Computer Science Connections into teaching sequence
Cost Considerations	 Design of the Program Model based on educator needs

 Potential participant travel Facilitator(s)Travel Facilitator(s) Preparation + Hosting of In person workshop Event Logistics and Operations
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Example #3: District-based How AI Makes Decisions for 3-5 grade general educators

Curriculum	How Al Makes Decisions (grade 3-5)
Audience	 General education, grade 3-5 educators in a large school district The majority have no previous Code.org experience
Implementation Goal	75% of participants implement How AI Makes Decisions.
PL Resource(s) Utilized	 Getting Started with Code.org Self-Paced Module Slide Template Teaching How AI Makes Decisions Self-paced Module Slide template. Al 101 Self-Paced Module Slide template. Al 101 Self-Paced Module Slide template. Al 101 Self-Paced Module Slide deck template. Teaching CS Fundamentals Self-Paced Module Slide deck template. Teaching CS Fundamentals Self-Paced Module Slide deck template.
Program Modality(ies)	 Asynchronous independent work In-person workshops

Program Outline	 In-Person synchronous workshop (3-hours): Pre-Work: Complete Getting Started with Code.org Self-Paced Module Pre-Work: Complete AI 101 self-paced module. Introduction to Getting Started with Code.org Introduction to AI 101 Deep Dive into Teaching How AI Makes Decisions Post Workshop Asynchronous Work: Create a section and add students to the section. Assign How AI Makes Decisions In-Person synchronous workshop (3-hours): Pre-Work: Document thoughts, successes, and challenges as educators implement curriculum. Small-group discussions to reflect on pre-work documents, offer feedback and suggestions for improvement. Introduction of CS Fundamentals as next steps
	samples to showcase student learning.
Cost Considerations	 Design of the Program Model based on educator needs Potential participant travel Facilitator(s)Travel Facilitator(s) Preparation + Hosting of In person workshops Event Logistics and Operations

Example #4: AI 101 for Educators - Prepare to Host HoC AI for Oceans and AI Ethics

Curriculum Audience	 Getting Started with Code.org AI 101 HoC - AI for Oceans HoC - AI Ethics 3-8 grade educators who want to host an HoC related to AI but don't feel comfortable or know how to get started.
Implementation Goal	 No previous CS or Code.org experience required 75% of participants host an AI - HoC in their classroom by December 31, 2024
PL Resource(s) Utilized	 Getting Started with Code.org Self-Paced Module Slide Template Al 101 Self-Paced Module Slide Template Al for Oceans (Hour of Code) Al Ethics (Hour of Code)
Program Modality(ies)	 Virtual synchronous workshop Facilitator-hosted office hours Asynchronous independent work
Program Model	 Kick-off Virtual synchronous workshop (90 min): Pre-Work: Complete Getting Started with Code.org Self-Paced Module Introduction to Getting Started with Code.org Introduction to AI 101 Post Workshop Asynchronous Work: Complete AI 101 Self-Paced Module Option 1: Virtual synchronous workshop (90 min): Deep Dive into AI for Oceans Post Workshop Asynchronous Work: Create a section for your class and assign AI for Oceans

	 Option 2: Virtual synchronous workshop (90 min): Deep Dive into AI Ethics Post Workshop Asynchronous Work: Create a section for your class and assign AI Ethics (Optional) Facilitator-led Office Hours: Hosted Weekly Closing Virtual synchronous workshop (60-min) (will take place AFTER HoC): Prework: Identify top 3 student projects Breakout rooms: share top students projects Reflection: What went well, what can be improved next time? Next Steps and future planning.
	Deliverable Proof of Learning: Presentation of top 3 student projects from HoC
Cost Considerations	 Design of the Program Model based on educator needs Facilitator(s) Preparation + Hosting of In person workshop Event Logistics and Operations