

Intel® Teach Elements Project-Based Approaches and Technology Integration for Leaders

Syllabus

Course Description

Project-Based Approaches for Leaders is a four-hour face-to-face course to inform school administrators about project-based approaches with technology, while providing strategies to encourage implementation of project-based approaches with their teachers. The course includes e-learning activities, discussions, and optional Action Plan and Notebook activities where participants apply their learning. The course is a combination of Project-Based Approaches and Leadership in the 21st Century.

Activity 1: Technology Leadership

Activity 1 provides an opportunity for participants to consider their own strengths and challenges as a leader. They explore strategies for fostering a learning environment that leverages technology to help develop students' 21st century skills.

Outcomes:

- Understand how leaders can impact 21st century education by using standards to guide administrative actions and decisions.
- Explore effective professional development ideas for technology integration.

Step 1: Technology Leaders

- **E-learning Content:**

Intel® Teach Elements: Leadership in the 21st Century

Module 1: Technology Leadership > Lesson 1: Visionary Leadership

Step 2: Technology Leaders

- **E-learning Content:**

Intel Teach Elements: Leadership in the 21st Century

Module 1: Technology Leadership > Lesson 2: Professional Practice

Activity 2: Projects

Activity 2 provides an overview of the principles of project-based learning. Participants learn about the differences between a project-based approach and conventional teaching, and review the research-based benefits of project-based learning. As they view examples of different projects and hear from teachers doing projects, they come to understand the characteristics that projects have in common.

Outcomes:

- Recognize what makes a project approach unique
- Understand the benefits of projects
- Identify characteristics of projects

Step 1: Project Benefits

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches

Module 1: Projects Overview > Lesson 1: Project Basics and Lesson 2: Project Benefits (Activities 1, 3)

Step 2: Project Characteristics

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches

Module 1: Projects Overview > Lesson 3: Project Characteristics

Activity 3: Project Design

In this module, participants begin thinking about designing projects. They are introduced to the four major steps of project design. Participants follow one teacher's process as he begins to plan his project.

Outcomes:

- Understand the steps of project design
- Identify standards, 21st century skills, and learning objectives for a project plan
- Learn the purposes and components of Curriculum-Framing Questions

Step 1: Project Planning

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches

Module 1: Projects Overview > Lesson 1: Project Planning

Step 2: Project Structure

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches

Module 1: Projects Overview > Lesson 2: Learning Goals and Lesson 3: Questions that Frame Learning

Step 3: Project Assessment

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches

Module 1: Projects Overview > Lesson 4: Assessment in Projects (Activity 1)

Activity 4: Collaboration with Technology

This activity explores how web-based tools enable administrators, teachers, and students to collaborate and communicate with each other and the world. This activity can be used to understand how collaboration with technology can enrich a project-based approach.

Outcomes:

Investigate online tools to support collaboration and communication.

Step 1: Tools for Collaboration

- **E-learning Content:**

Elements: Leadership in the 21st Century

Module 2: Collaboration with Technology > Lesson 1: New Online Tools for Collaboration (Activities 1, 2)

Course Length

Total hours to complete the course depend on the facilitation, the number of optional activities completed, and the delivery method (all face-to-face or partially online):

- Minimum Requirements: Approximately 3 hours are required to complete the the activities in a facilitated course.
- Action Notebook/Action Plan: Completing Action Notebook extension activities will add additional time to the course. This is optional.
- Facilitated Discussions: Participants share ideas with other leaders and give feedback to peers. Completing optional extension discussions or adding time to the minimum discussion requirements will add additional time to the course.
- Delivery method: If some of the online content is completed outside of the face-to-face facilitated course, actual completion time may vary.