

# MODULE 3

## Arduino Introduction



55 Mins



### OVERVIEW

This is the third module that will introduce you to Arduino. In this module you will be learning about the Arduino board and software. This will allow you to write programs and upload them to your board. This will in turn be used to control any sensors or additional applications you wish to add to your Balloon Payload.

### MATERIALS

- Arduino kit
- Computer
- Computer power cable
- [Arduino software](#)
- Power/computer cable  
(USB A-USB B)

### PREREQUISITES

- The [Soldering 101 module](#) must be completed prior to this module

Complete Prerequisites and have all Materials before continuing to activity

#### 1 What is Arduino

- What is an IDE?
- Download Arduino Software onto your personal computer
- Arduino Overview

#### 2 Coding basics

- Learn coding basics
- Learn about Serial communications
- How to upload to Arduino board

#### 3 Visual Display

- Practice writing code in Arduino software
- Create a blinking light on your arduino board
- Learn to troubleshoot

Module Video:  
[Arduino Introduction](#)



### NEXT STEPS

After completing all aspects of this module, you can move on to [Module 4: Sensors Part 1](#)