

ATLAS Apple Technical Learning Administration System

Emily Nahmanson

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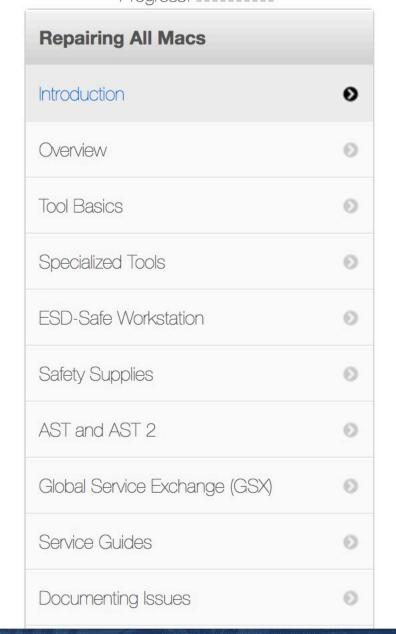
Courses In Progress - ATLAS

## Repairing All Macs

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# Repairing all Macs

ACMT 2016 Overview - ATLAS

Introduction

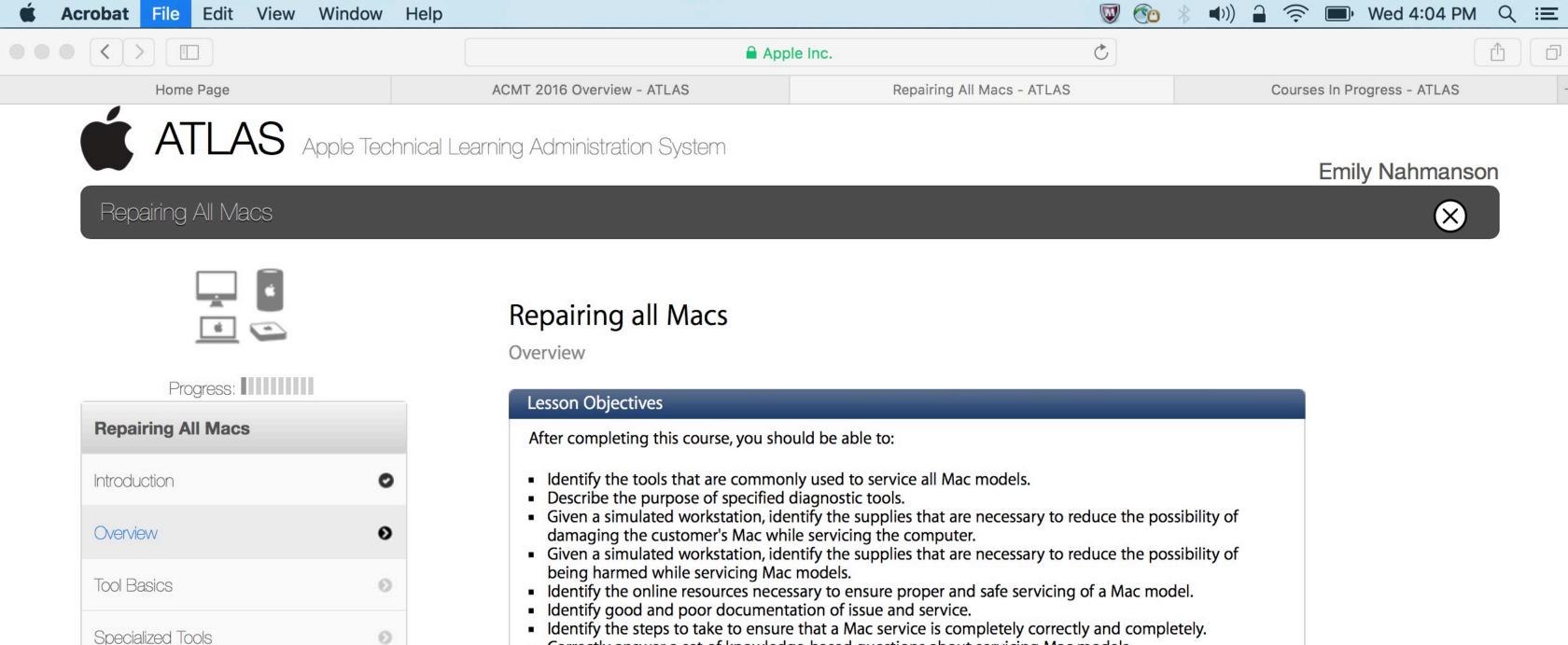


Repairing All Macs - ATLAS

### **Course Description**

The Repairing all Macs course describes service and support considerations for the Mac computer family.

This course is part of the ACMT 2016 curriculum and is used to prepare for the Mac Service Certification Exam (MAC-16A).



Identify the steps to take to ensure that a Mac service is completely correctly and completely.

Correctly answer a set of knowledge-based questions about servicing Mac models.



**ESD-Safe Workstation** 

Global Service Exchange (GSX)

Safety Supplies

AST and AST 2

Service Guides

Documenting Issues

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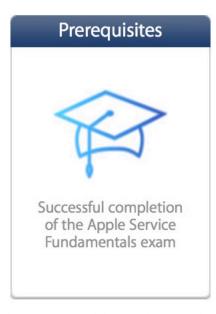
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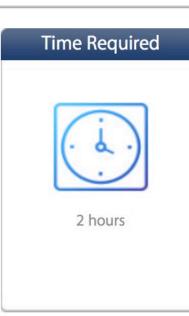
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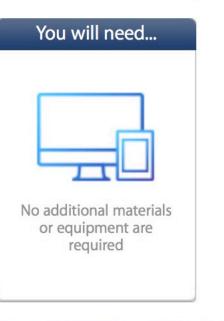
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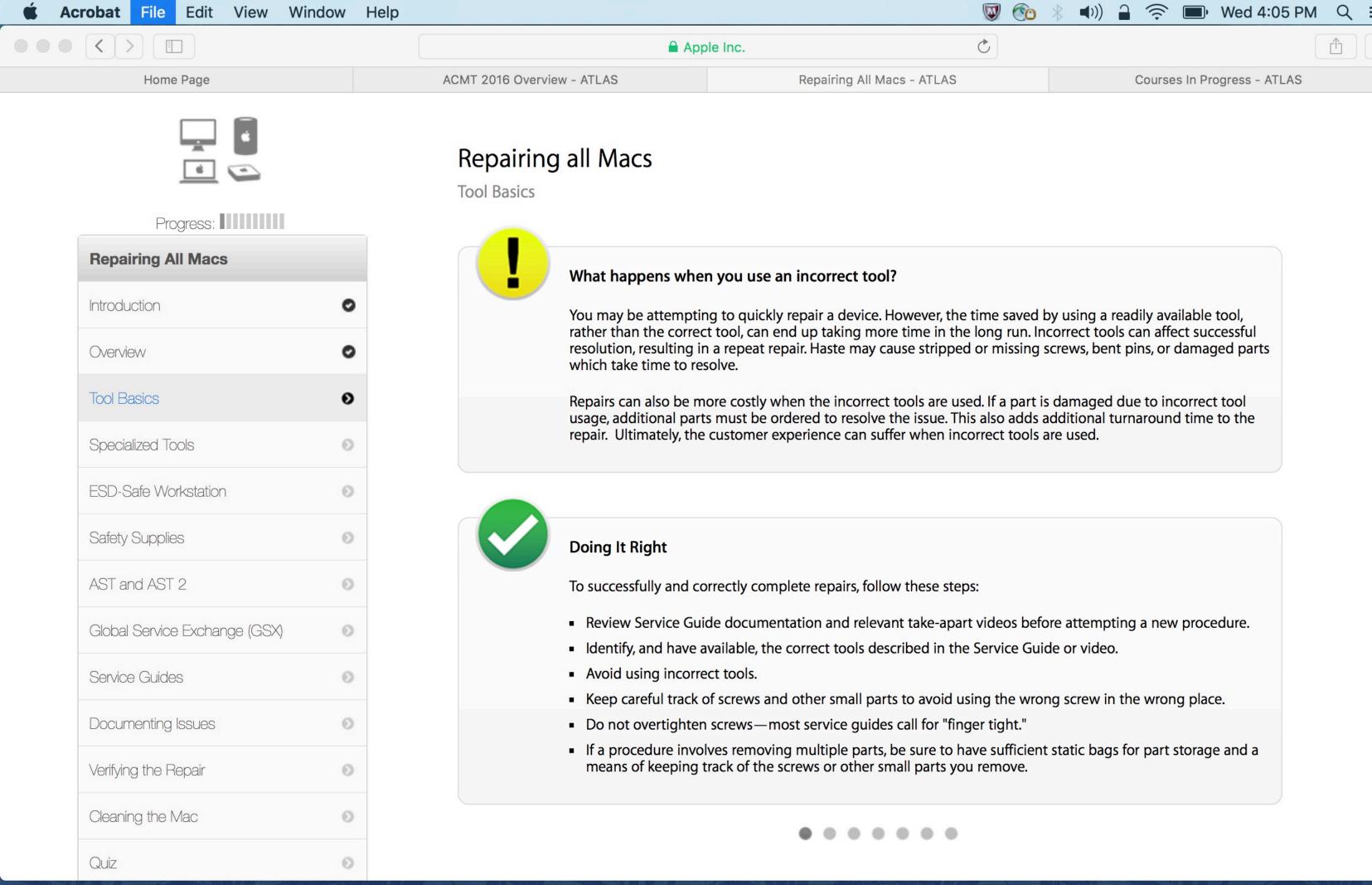
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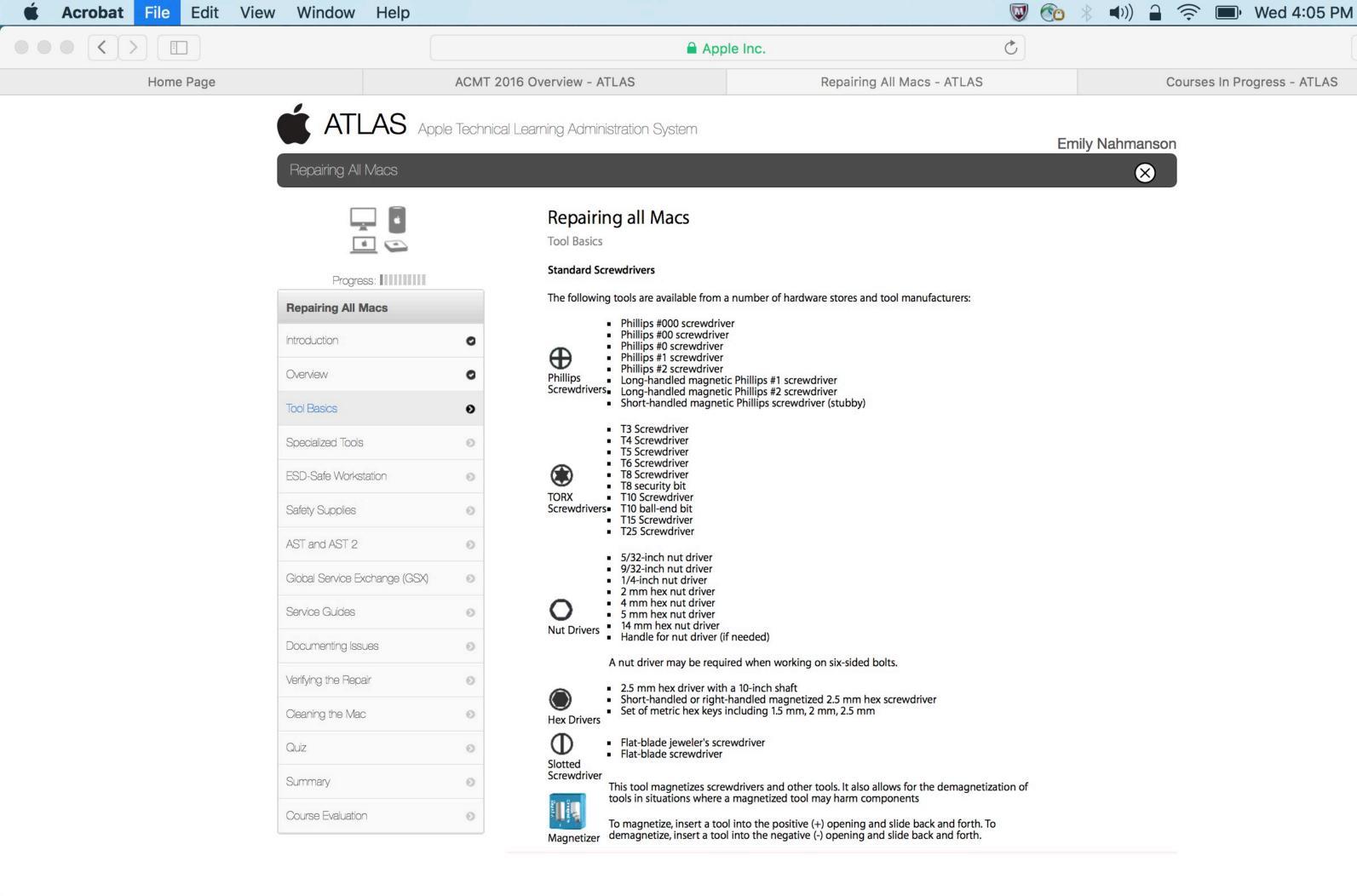
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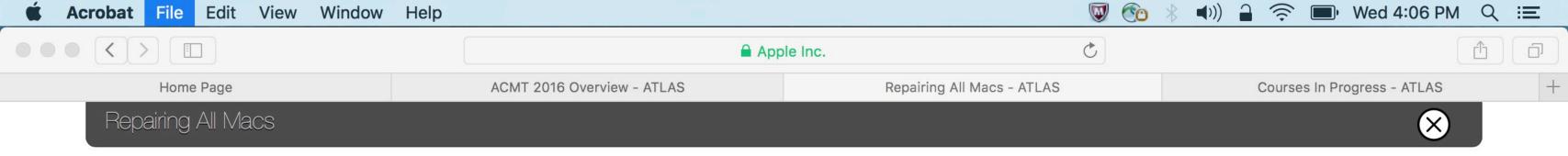




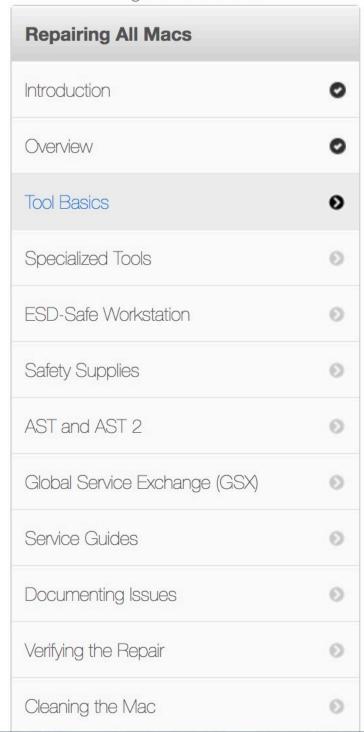








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# Repairing all Macs

**Tool Basics** 

#### **Identifying the Correct Screwdriver**

Screwdrivers are identified from each other based on their physical characteristics and what type of screw they drive.

- A Tip
- B Blade
- C Shaft
- D Handle
- E Palm/Finger Rotation Cup (Jewelers Type only)



#### Torque screwdrivers and Jewelers screwdrivers

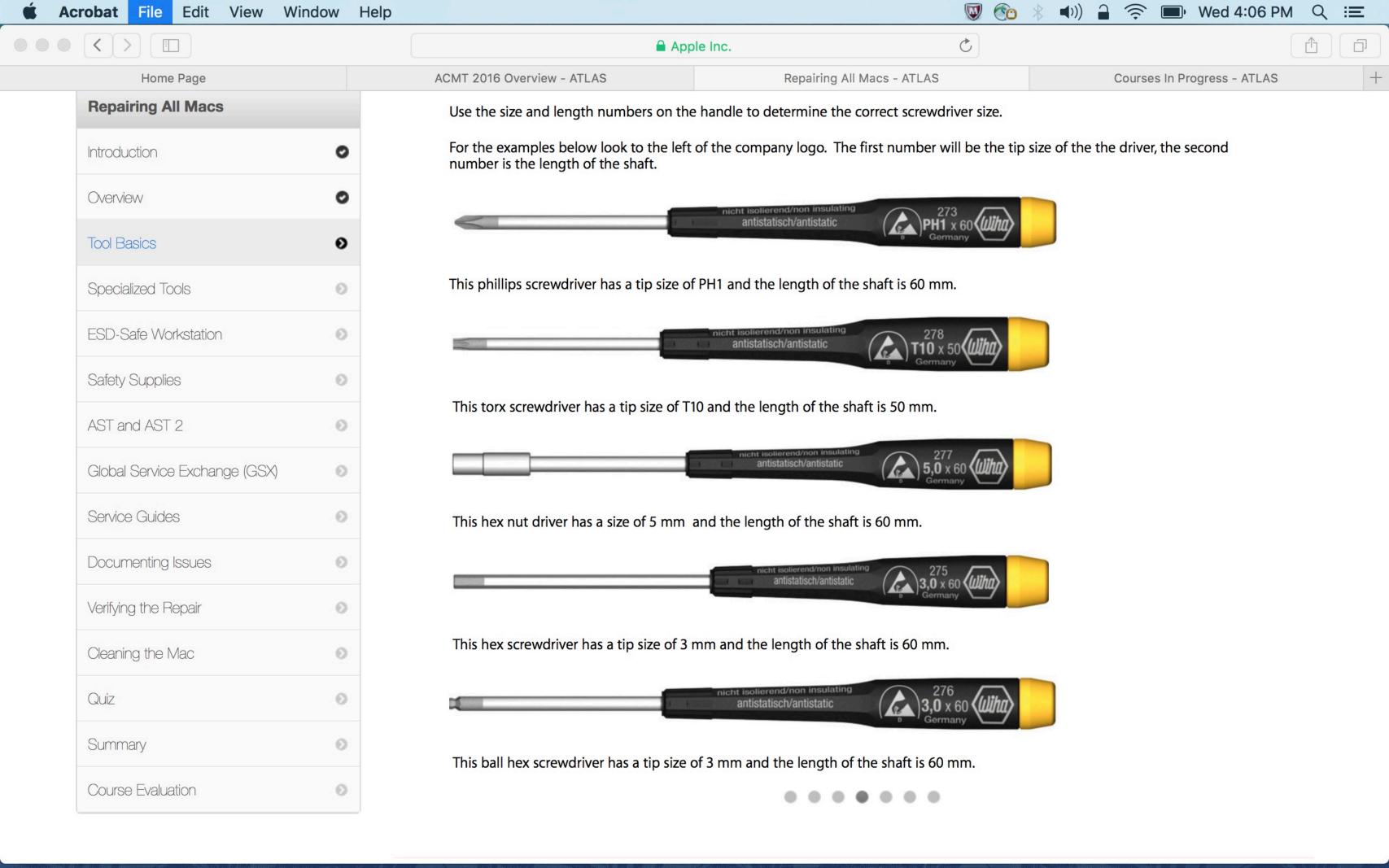
A torque screwdriver is a screwdriver with components that ensure tightening to a specific value, and will not allow over tightening.

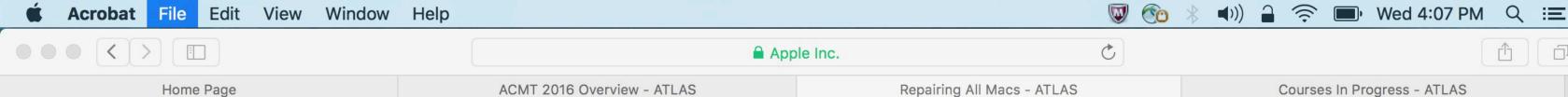
Follow the Service Guide instructions closely when required to set torque settings on adjustable torque screwdrivers.





A jewelers screwdriver is a screwdriver with a rotating cup at the end of the handle, which allows the handle to spin free when held firmly in the palm or with a fingertip.







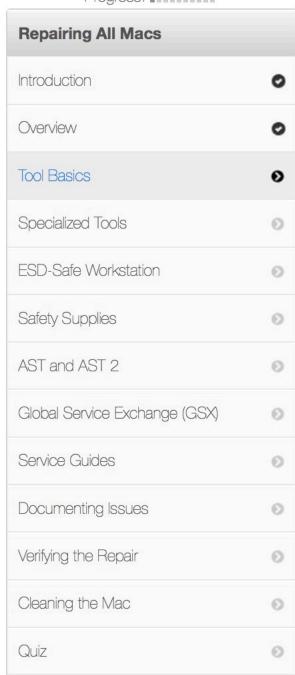
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## Repairing All Macs



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# Repairing all Macs

**Tool Basics** 

#### Examples (cont.)

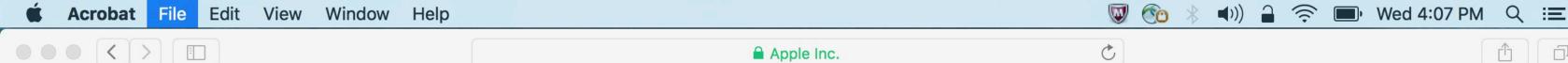




A hex bit or screwdriver with ball head type allows screws to be removed at an angle.

Hex screws can also be removed with allen wrenches which typically come in kits labeled with the size of the hex. This kit contains 10 - 1.5 mm.

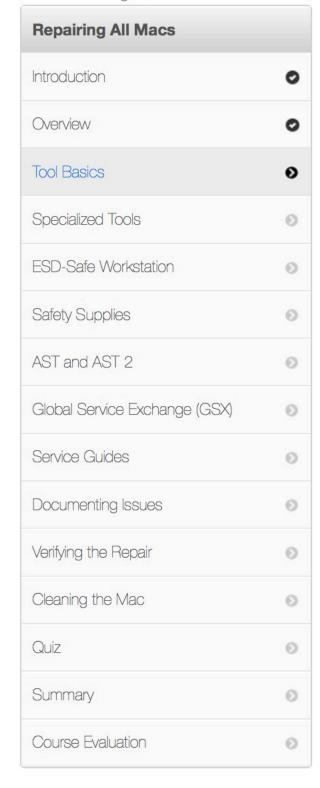






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ACMT 2016 Overview - ATLAS



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Repairing All Macs - ATLAS

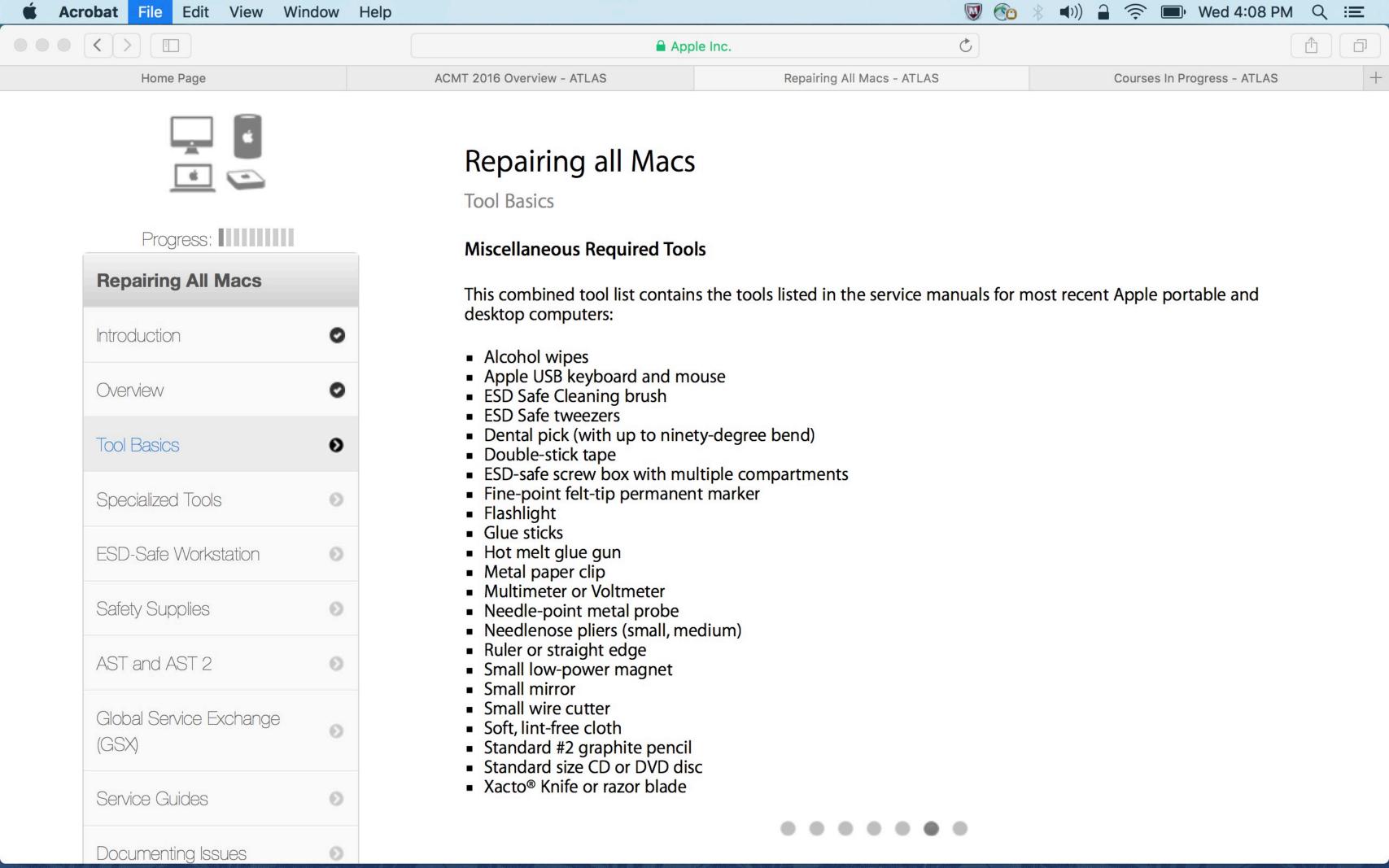
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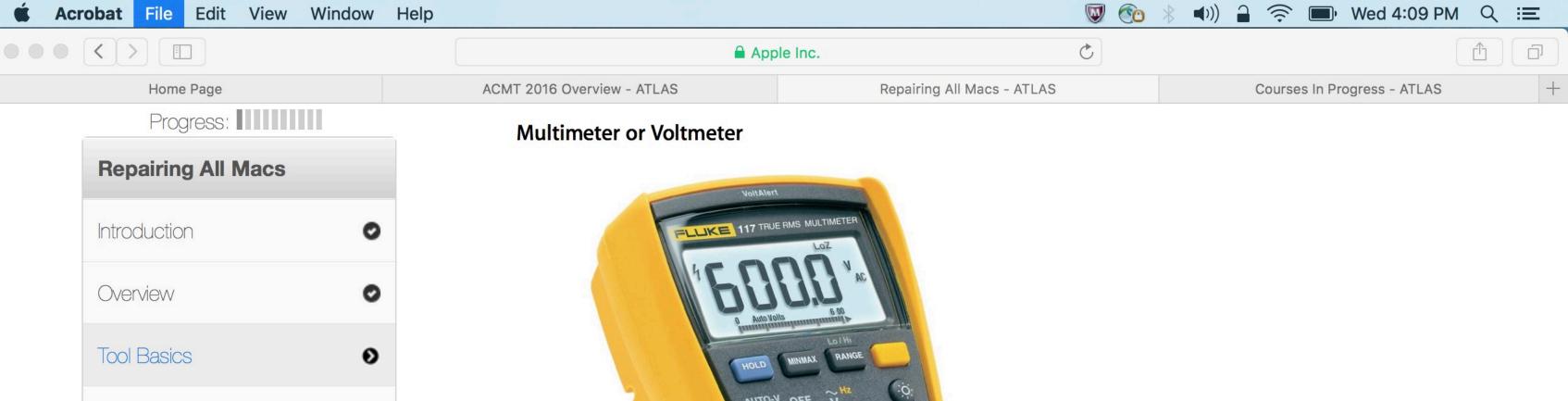




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This slotted or flat-head screwdriver has a tip size of 3 and the length of the shaft is 50 mm.





Specialized Tools

Safety Supplies

AST and AST 2

Service Guides

Documenting Issues

Verifying the Repair

Cleaning the Mac

(GSX)

ESD-Safe Workstation

Global Service Exchange

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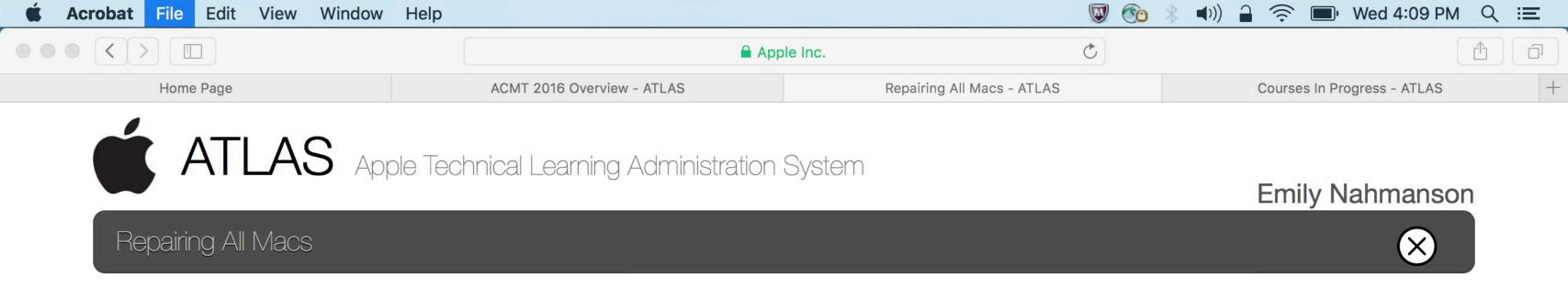
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A multimeter or a multitester, also known as a voltmeter, is an electronic measuring instrument that combines several measurement functions in one unit. A typical multimeter would include basic features such as the ability to measure voltage, current, and resistance. Each manufacturer may have different setup and usage instructions, check the manufacturer's website for detailed instructions. When repairing Macs, multimeters are typically used to measure logic board battery voltage and checking connectivity of fuses using the meter's ohms setting.





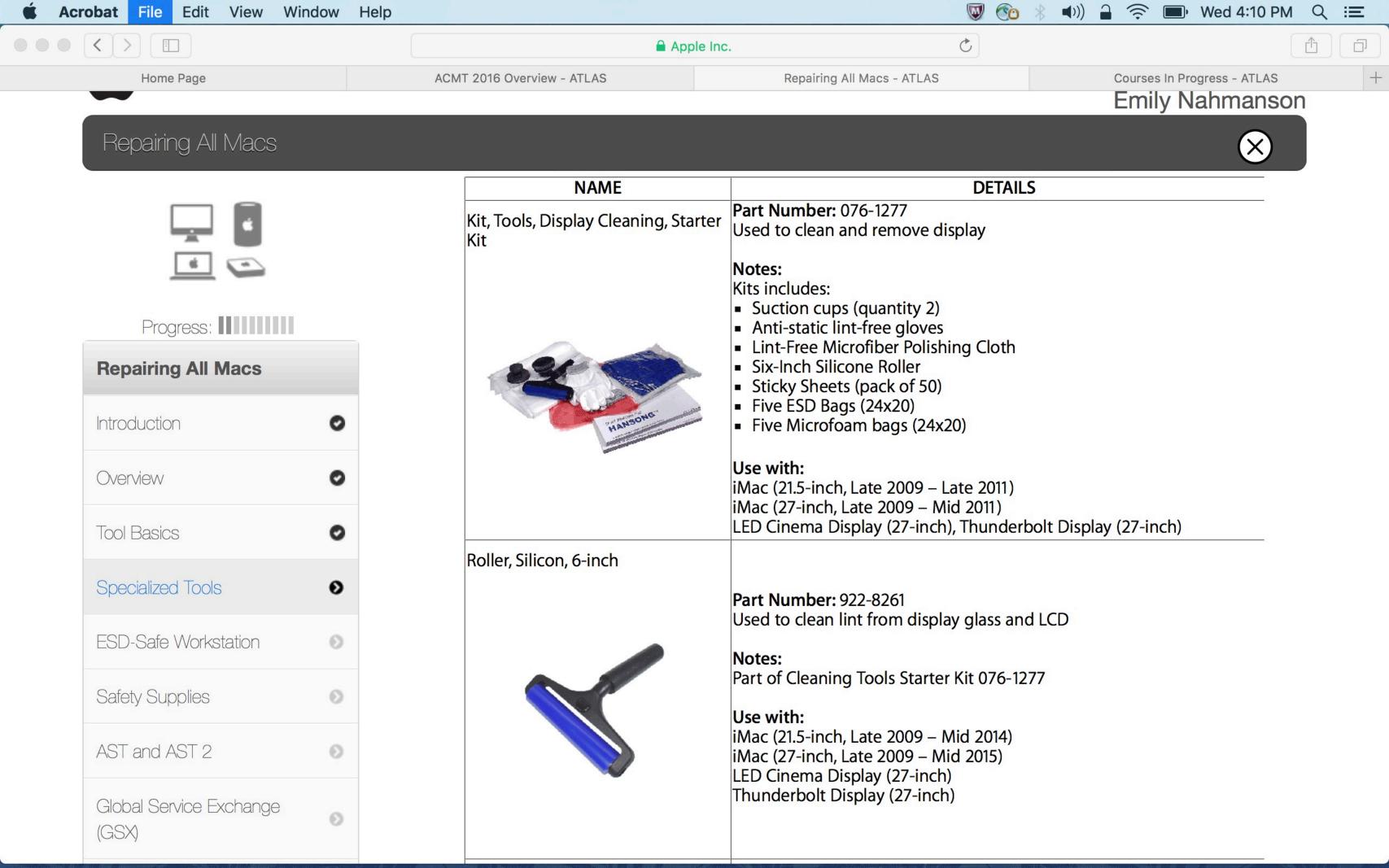
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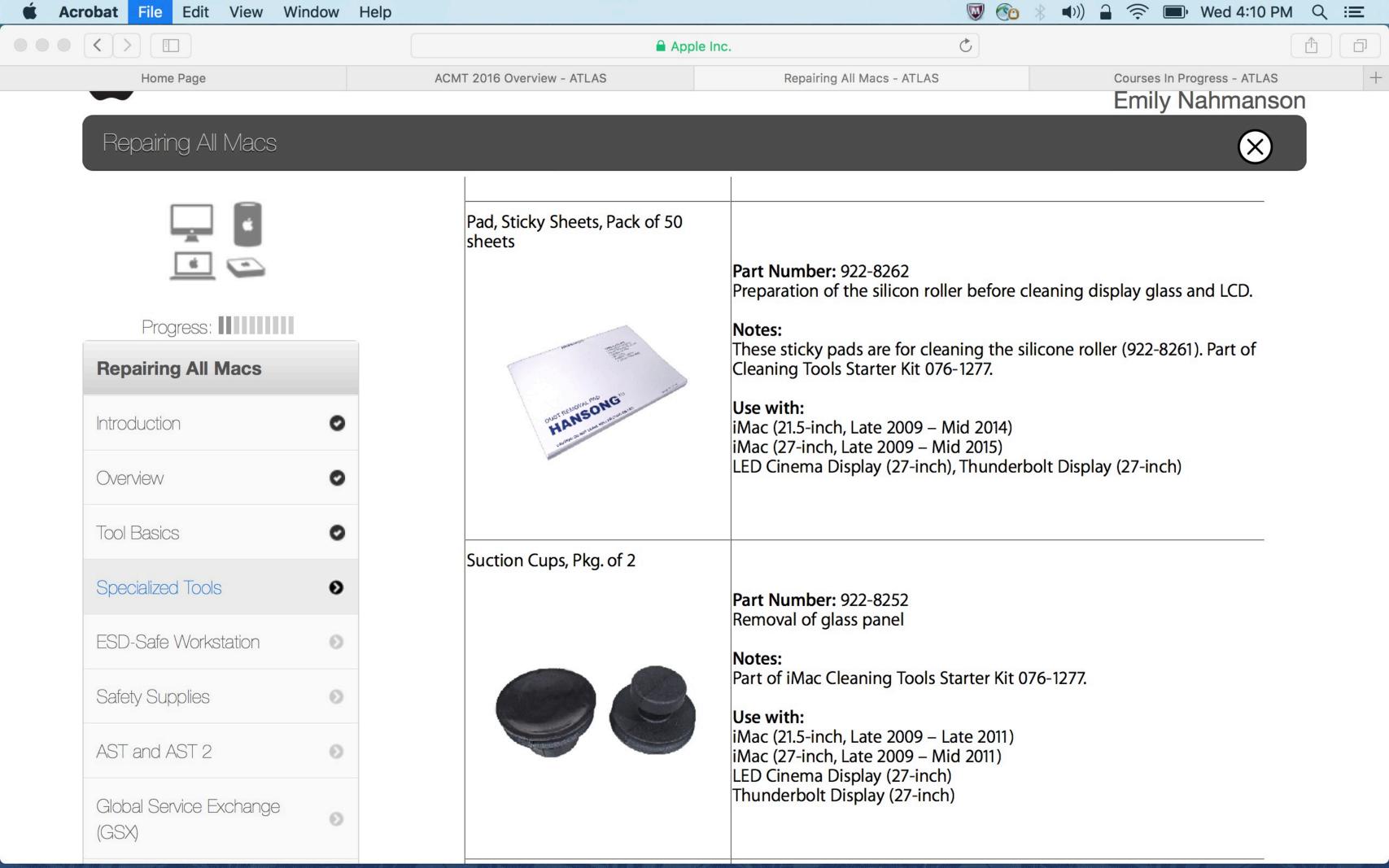
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Specialized Tools	0
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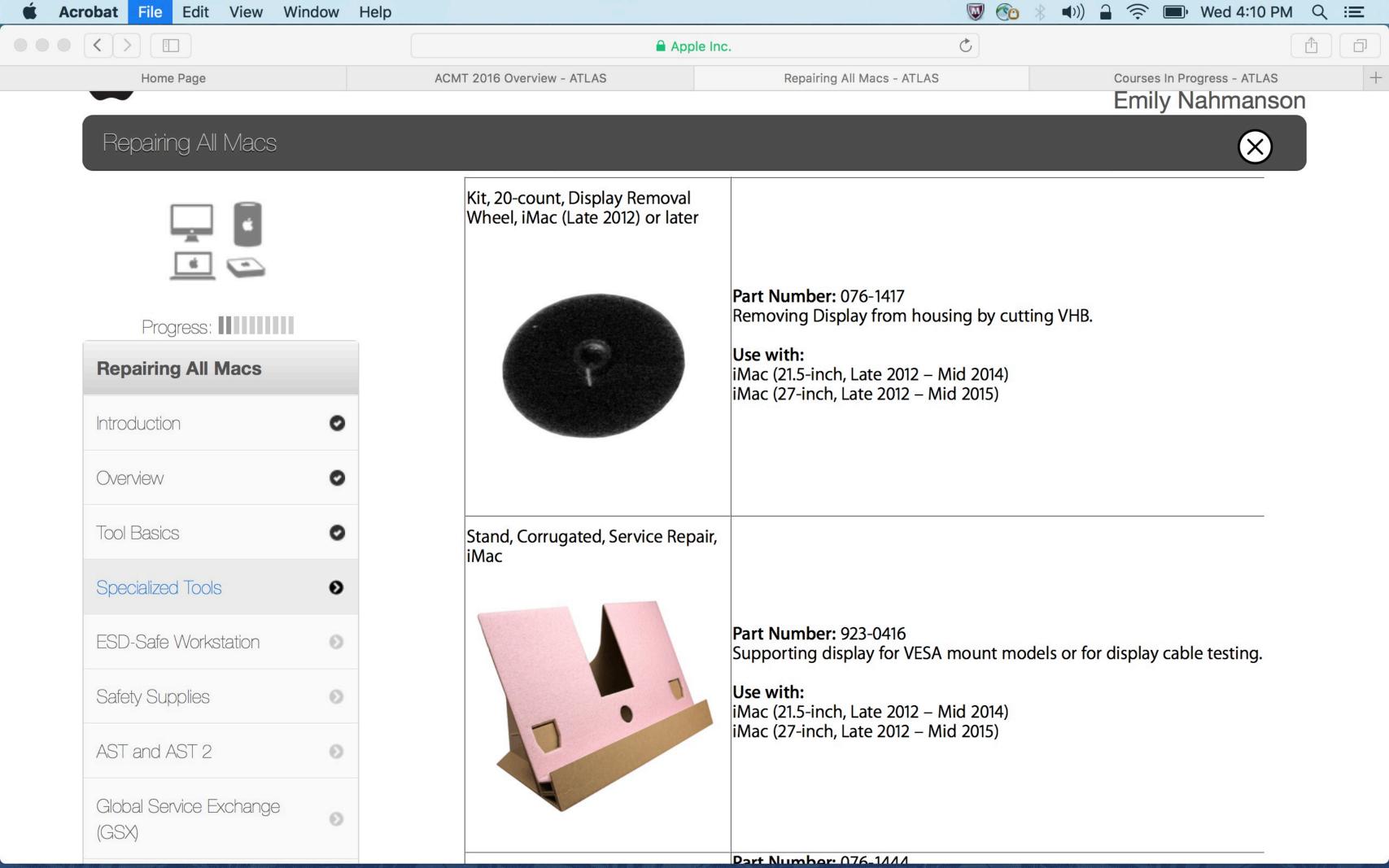
# Repairing all Macs

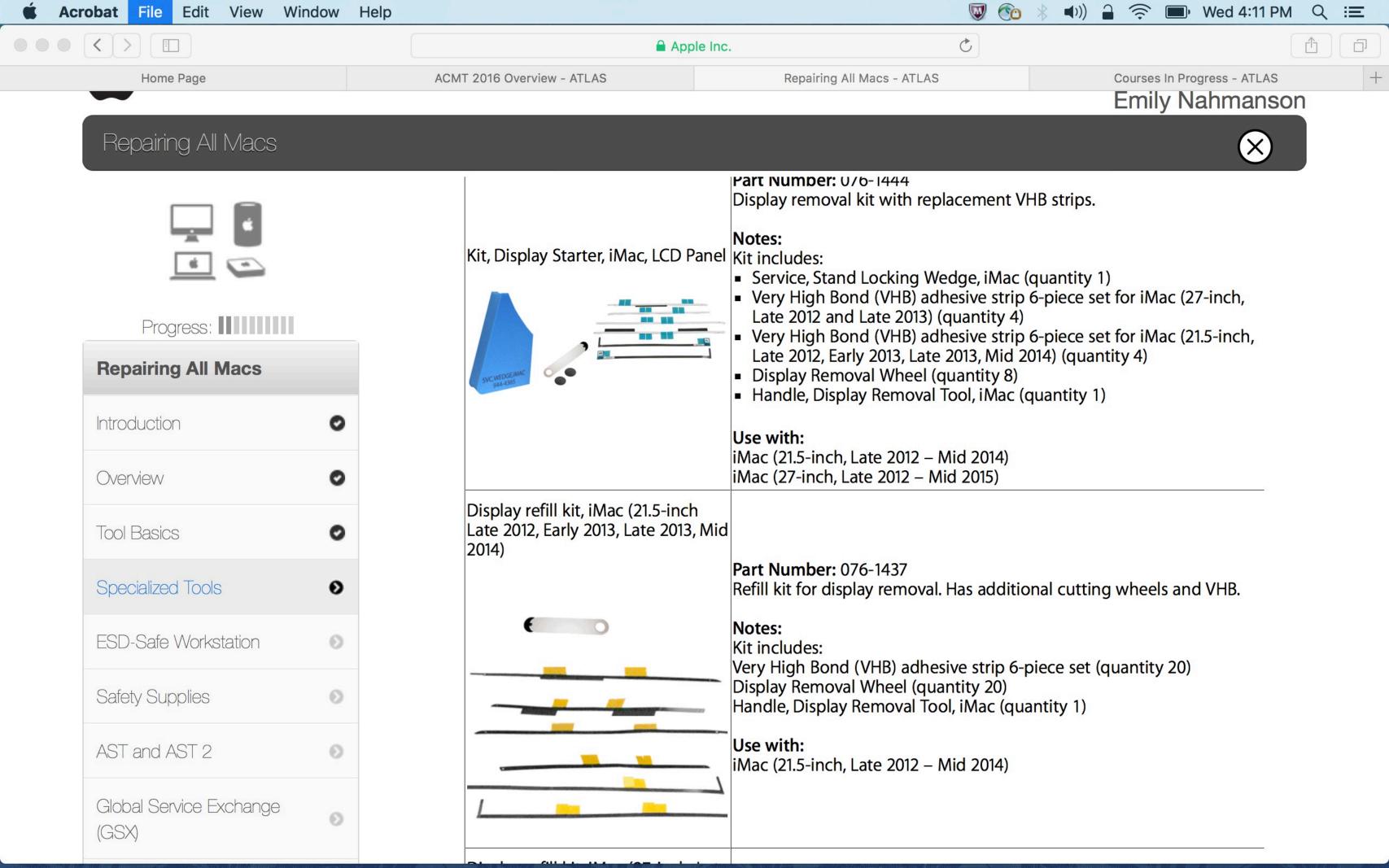
**Specialized Tools** 

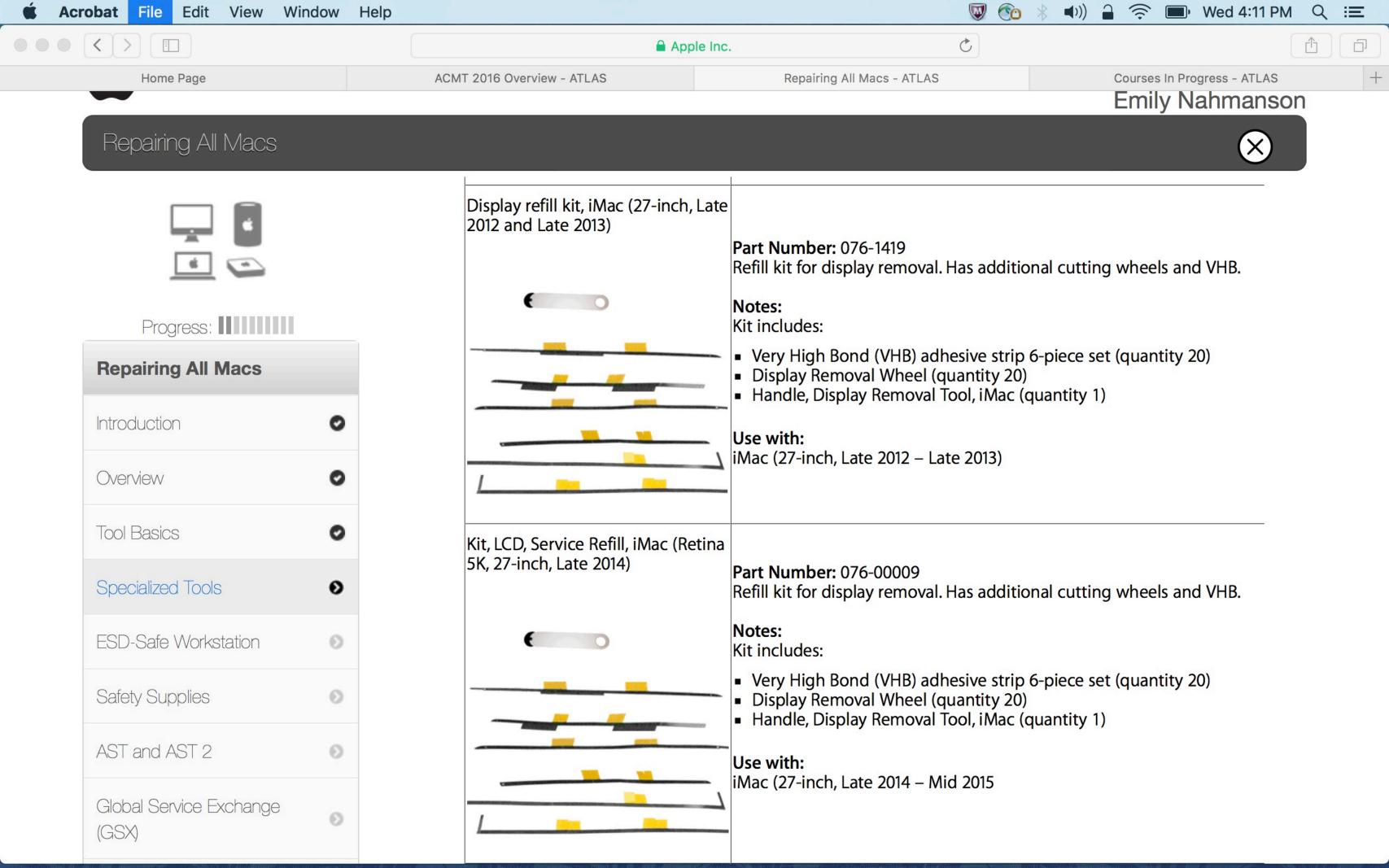
In addition to the generally available hand tools, some Mac products require special screwdrivers, fixtures, or other tools. These special tools are available from Apple and are only sold to Authorized Service Providers. Descriptions of such tools are found on the following pages and in the training courses for specific Mac models.

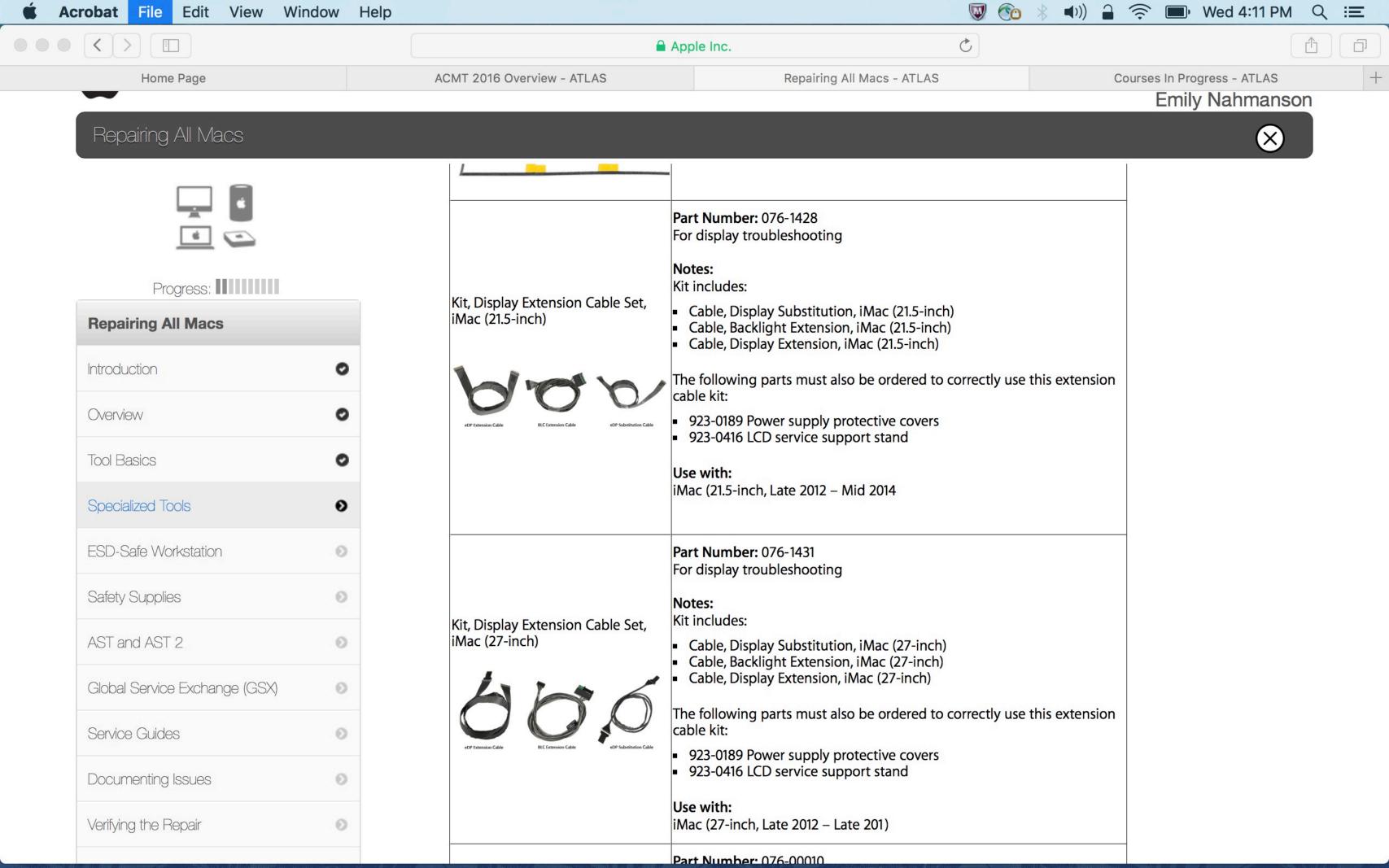


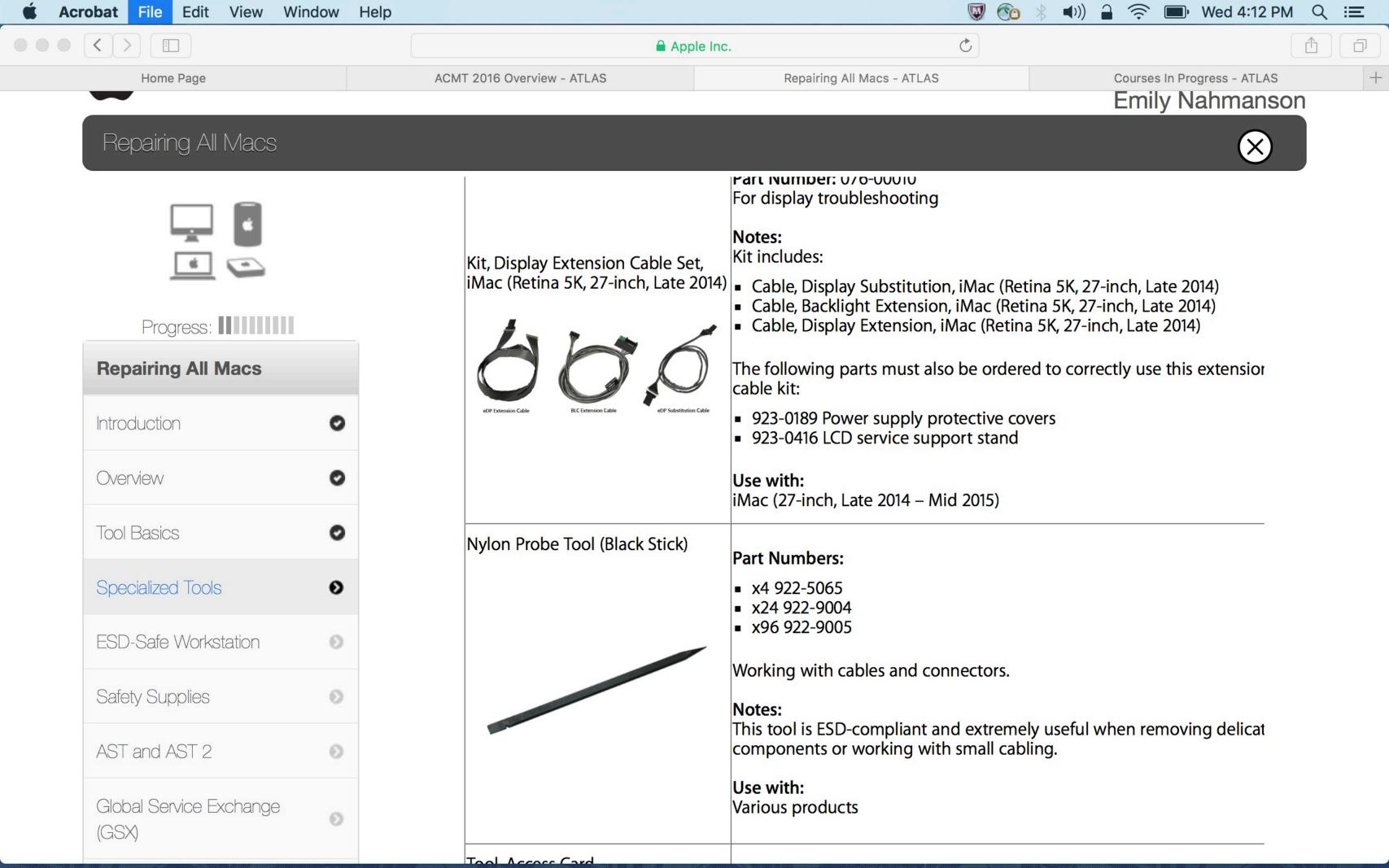


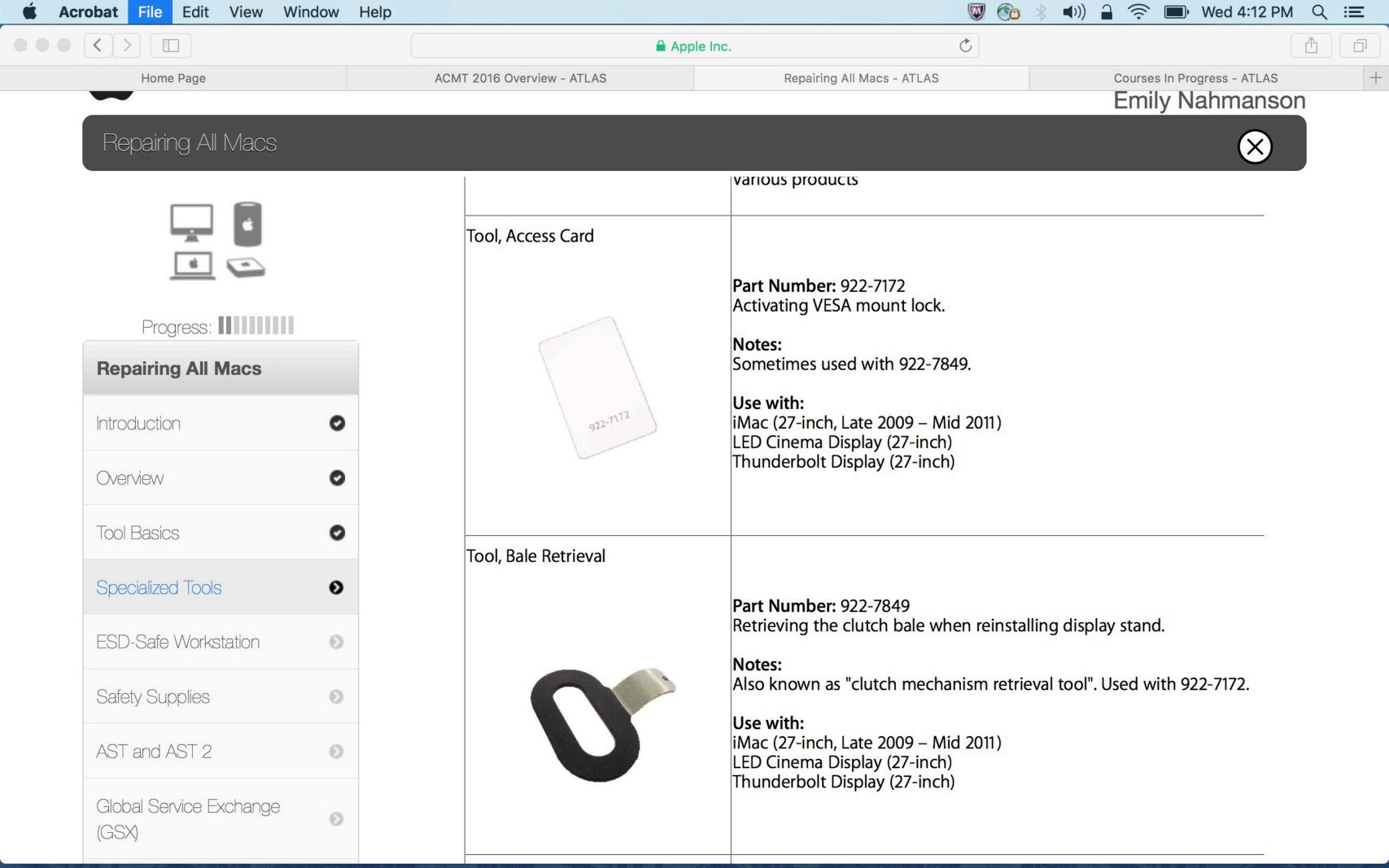


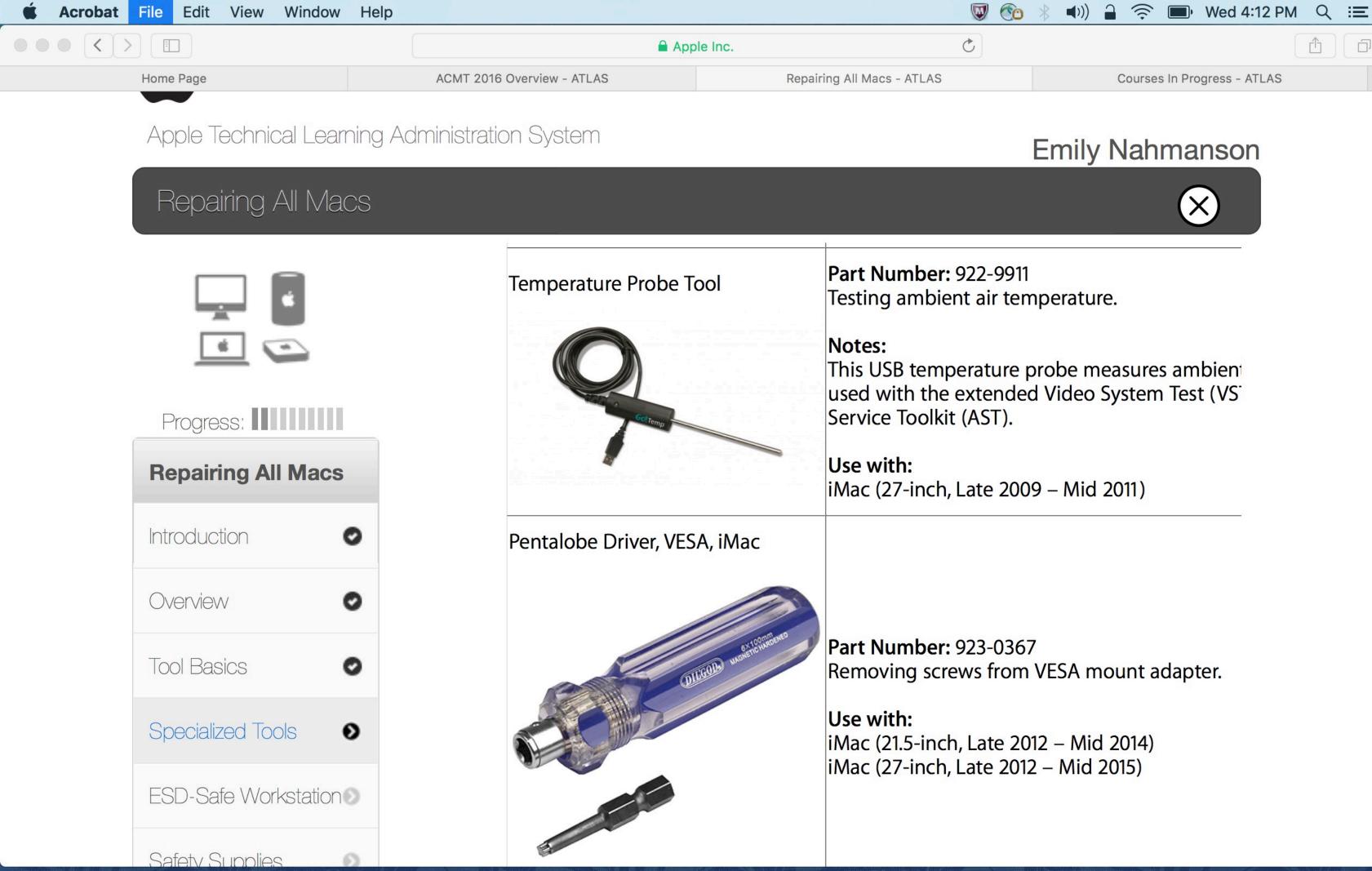


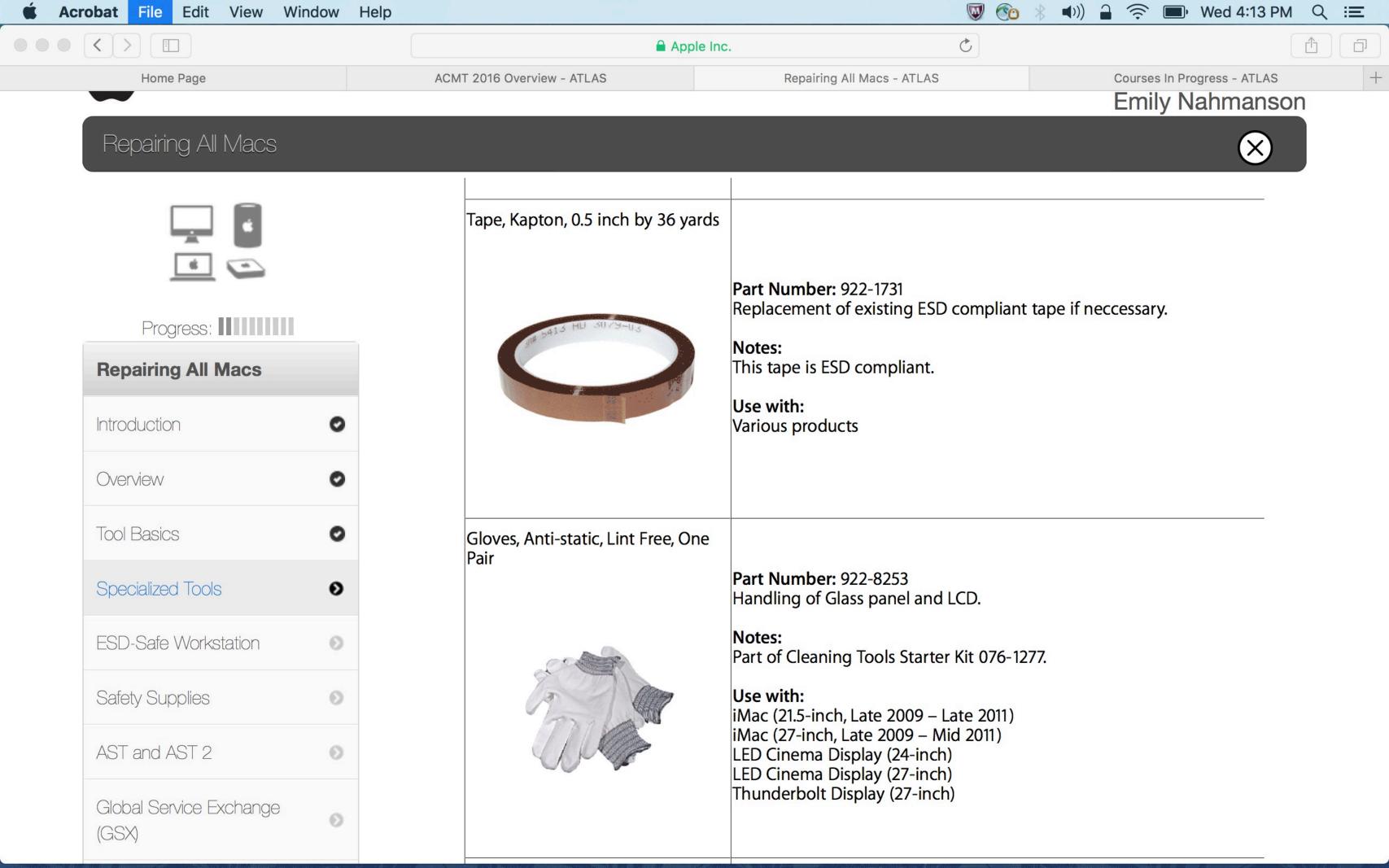


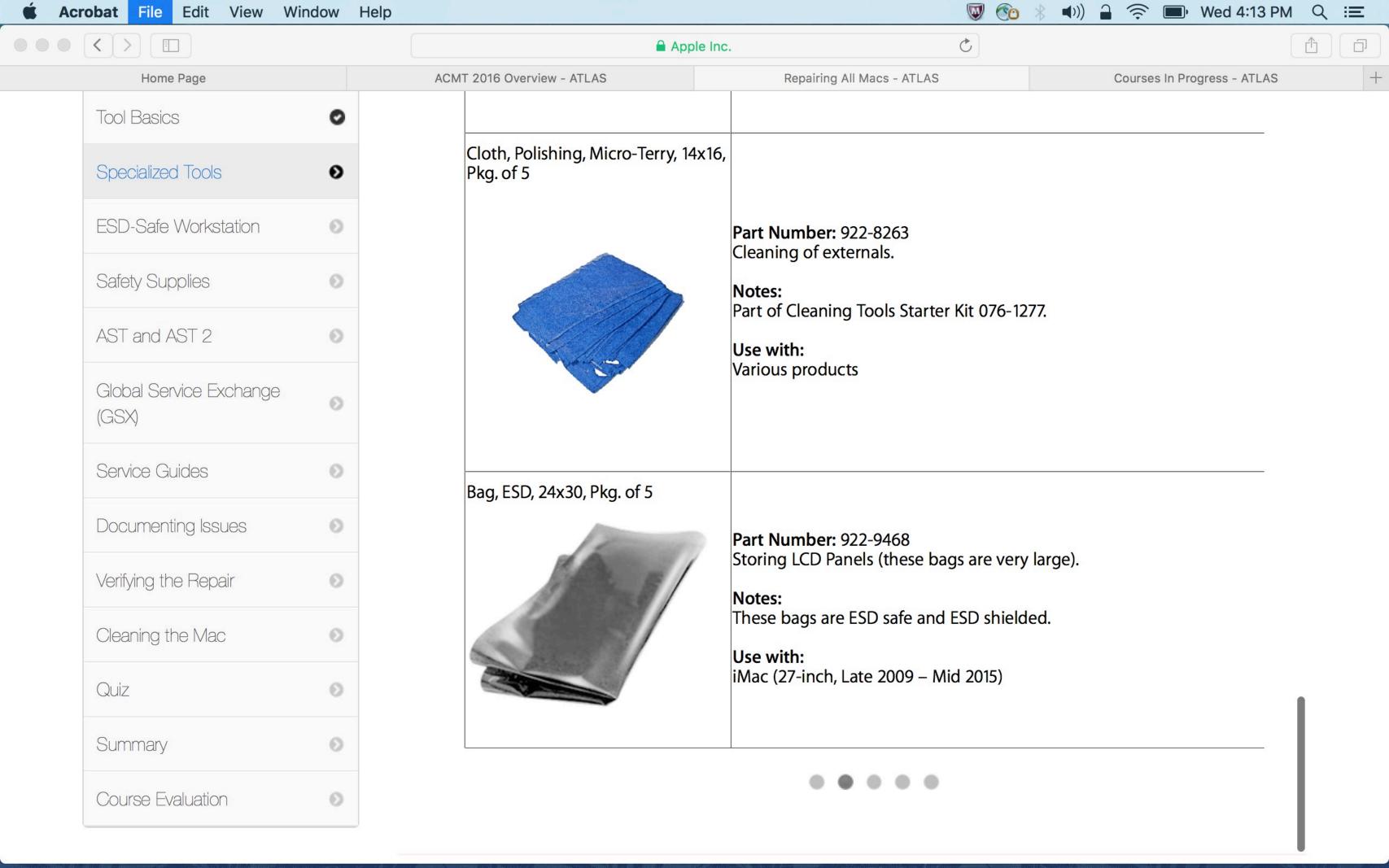


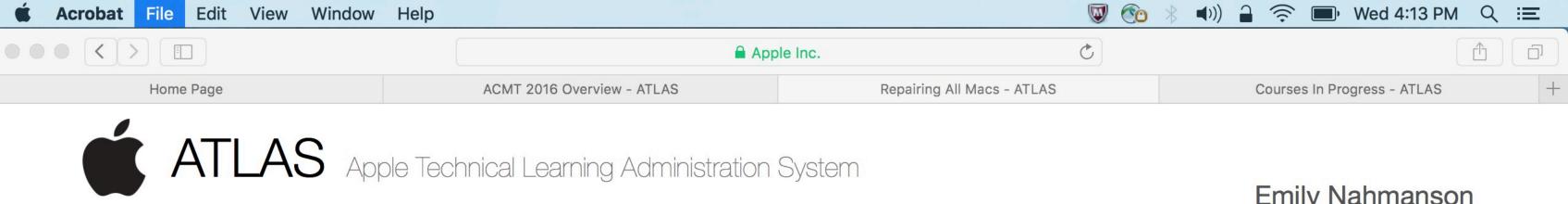












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# Repairing All Macs



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AST and AST 2	0

# **Specialized Tools**

#### - Portables

NAME	DETAILS
MacBook (Retina, 12-inch, Early 2015) Service Stand	Part Number: 076-00068 Holding Display Module to allow for cable disconnection.  Use with: MacBook (Retina, 12-inch, Early 2015)
Weight Placement Rubber Template  875-01850 Made in Taiwan	Part Number: 923-00555 Allows for precision placment of the Trackpad Calibraition weights.  Notes: Each product requires a specific template.  Use with: MacBook (Retina, 12-inch, Early 2015)

