



**SOLUTIONS ARCHITECT**

# Creating Comprehensive Digital Commerce Solutions

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Liferay

 **Commerce**

# Creating Comprehensive Digital Commerce Solutions

## Learning Objectives

In this module, you'll learn about the features and capabilities of Liferay Commerce so you can understand common use cases which can be addressed with Liferay Commerce.

## Tasks to Accomplish

- Get started with Liferay Commerce 2.1
  - Set up the platform (start your first instance of Liferay DXP with Liferay Commerce) Take a walk-through of different Liferay Commerce features
  - Simulate placing and processing a store order

## Exercise Prerequisites

- Java JDK Installed to Run Liferay
  - Download here: <https://www.oracle.com/technetwork/java/javase/downloads/jdk11-downloads-5066655.html>
  - Instructions on Installation here: [https://www.java.com/en/download/help/download\\_options.xml](https://www.java.com/en/download/help/download_options.xml)
- Unzipped module exercise files in the following folder structure:
  - Windows: `C:\liferay`
  - Unix Systems: `[user-home]/liferay`

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# Setting Up the Platform

## Exercise Goals

- Set up and run a local instance of Liferay DXP with Liferay Commerce
- Create a Site using the Minium Demo Site Template

## Create a Liferay Bundles Folder and Unzip the Liferay Bundle There

1. **Create** the following structure:

- Windows: `C:\liferay\bundles`
- Unix Systems: `[user-home]/liferay/bundles`

2. **Expand** `liferay-dxp-tomcat-[version].zip` to the bundles directory.

*Note: The .zip file can be found in the software materials provided. The Windows built-in archive tool introduces some Java path-length issues. To guarantee that the bundle will unzip and run as expected, you will need to use a third-party tool like 7-Zip, WinZip, or secureZIP.*

## Start the Liferay-Tomcat Bundle

1. **Go to** the Tomcat server's `bin` directory:

- Windows: `liferay-dxp-[version]\tomcat-[version]\bin` in the file manager
- Mac/Linux: `liferay-dxp-[version]/tomcat-[version]/bin` using the *Terminal*

2. **Start** the Tomcat Server:

- Windows: **Double-click** on the `startup.bat`.
- Mac/Linux: **Type** `./catalina.sh` run into your *Terminal* and press *Enter*.
  - Note: If you need to make `.sh` files executable, just type `chmod a+x *.sh` into the *Terminal*, from the Tomcat `bin` directory.

## Deploy an Activation Key

Once the server starts up, Liferay will open our default browser to the *Basic Configuration* screen.

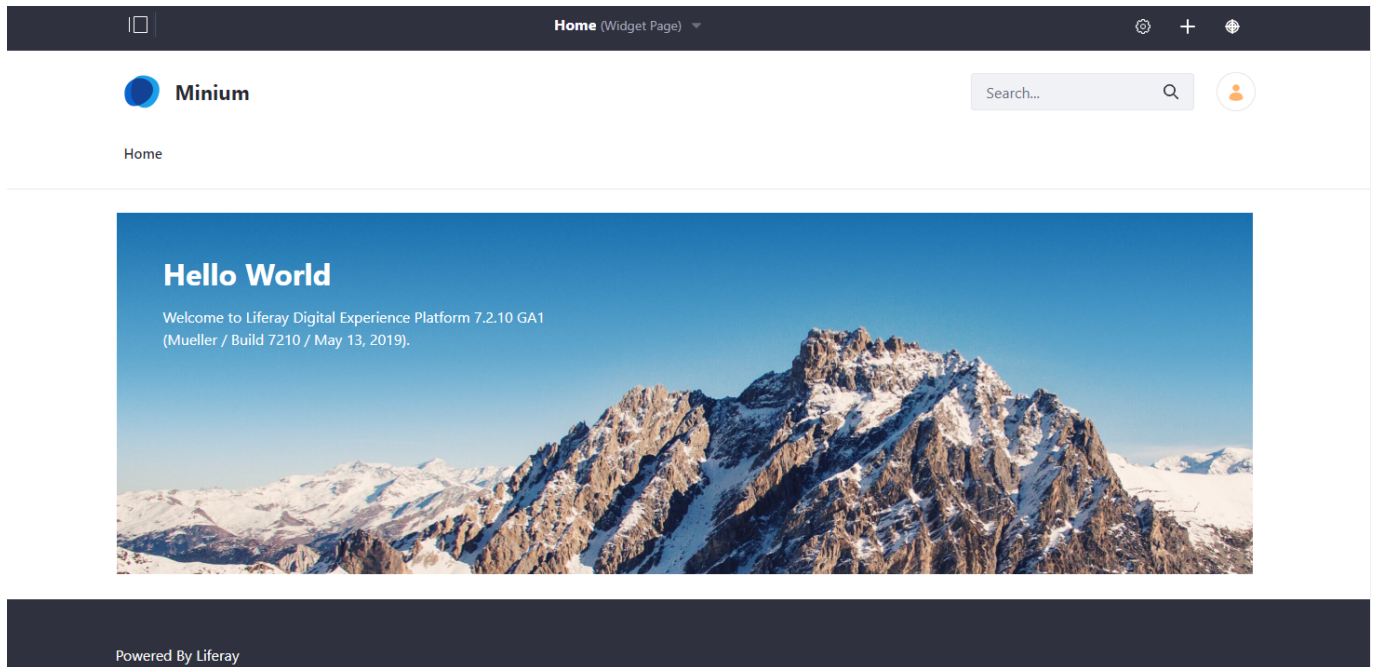
Before going through the basic configuration, we must add the activation key to Liferay. 1. **Copy** the *activation-key-digitalenterprisedevelopment-[version]-liferaycom.xml* file from the provided materials. 2. **Paste** the file into your *liferay-dxp-[version]/deploy* folder.

You should see that the license is registered by looking for `License registered for Portal Development` in the *Terminal* or *Command Prompt* window.

*Note: For this module, Liferay Commerce will be packaged with Liferay DXP. However, Liferay Commerce can be added to a compatible, existing instance of Liferay DXP by dropping the appropriate *lpkg* file and a valid activation key within the *liferay-dxp-[version]/deploy* folder prior to starting the Tomcat server.*

## Complete the Liferay Setup Wizard as Frank Bishop from Minium Automotive

1. **Start up** your instance of Liferay DXP.
2. **Type** `Minium` as the *Portal Name*.
3. **Type** in the first name `Frank` for the *Administrator User*.
4. **Type** in the last name `Bishop` for the *Administrator User*.
5. **Type** `frank.bishop@minium.com` for the email address.
6. **Click** *Finish Configuration*.
  - This will start the platform with the default HSQL database.
7. **Click** *Agree* after reading through the *Terms of Use*.
8. **Type** a new password for your account.
9. **Click** *Save*.
10. **Choose** a password reminder query.
11. **Type** in your answer.
12. **Click** *Save*.



## Deploy Liferay Commerce onto the Platform

1. **Shut down** your instance of Liferay DXP.
2. **Drag and drop** the *Liferay Commerce Enterprise 2.1.[version number]-7.2.x.lpkg* file from the provided materials into your *liferay-dxp-[version]/deploy* folder.
3. **Copy** the related activation key file from the provided materials.
4. **Paste** the file into your *liferay-dxp-[version]/deploy* folder.
5. **Start up** your instance of Liferay DXP.
  - This may take several minutes.
6. **Shut down** and restart your instance of Liferay DXP to finish installing Liferay Commerce.

## Create a New Site Using the Minium Demo Site Template

1. **Open** the *Menu*.
2. **Go to** the *Control Panel > Sites > Sites*.
3. **Click** the *Add* button.
4. **Choose** the *Minium Demo* Site Template.
5. **Type** *Minium Automotive* for *Name*.
6. **Click** *Save*.
7. **Click** *Save* at the bottom of the page.

GeneralSocialLanguagesAdvanced

DETAILS

Site ID

50185

Name \*

Minium Automotive

en-US

Description

Description

en-US

Active

☒ YES

Membership Options

Membership Type

Open

### Bonus Exercises:

1. Explore the *General* Section and change the main domain to use minium.com.
2. Go back to Instance Settings and choose which languages to use on the platform in *Localization*.

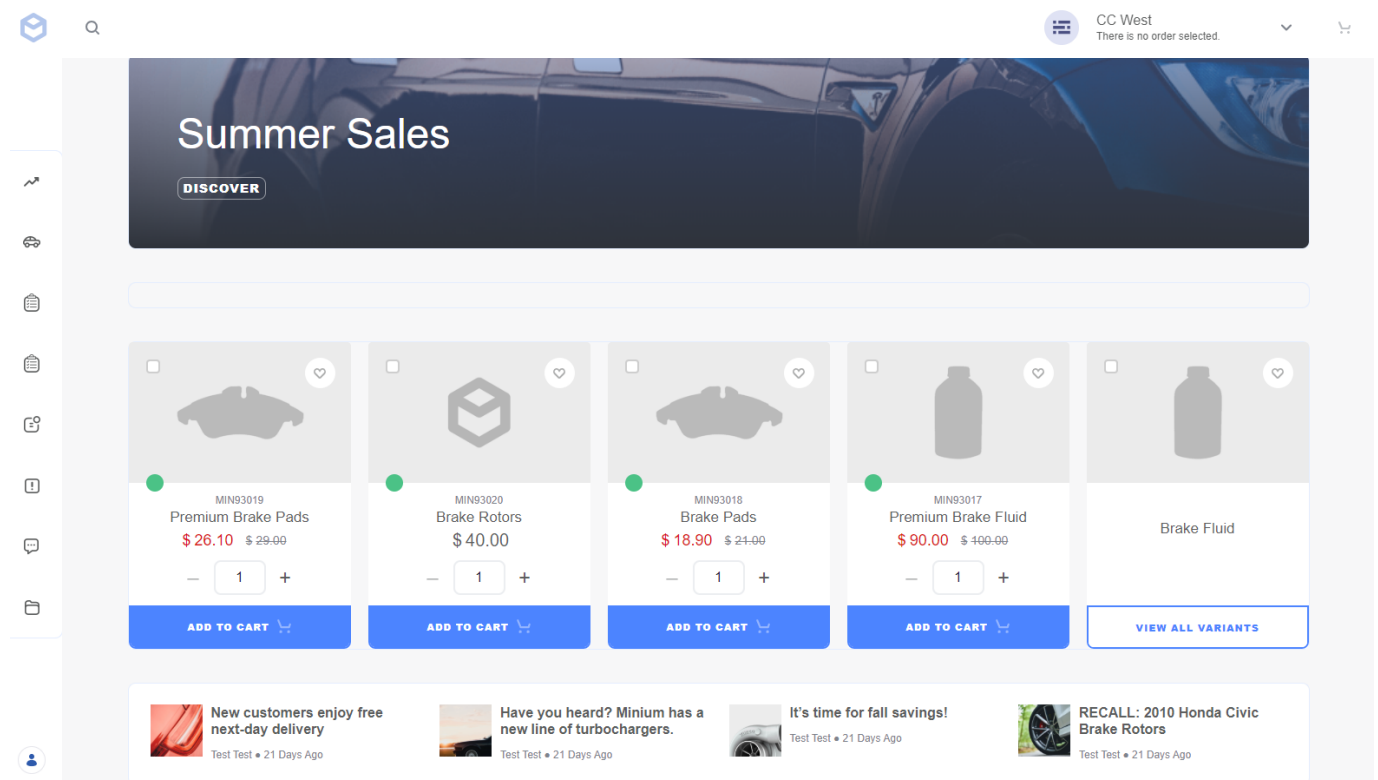
# Exploring Liferay Commerce

## Exercise Goals

- Explore the Minium Catalog
- Navigate through both the Buyer and Seller parts of the Checkout Process

## Open the Minium Automotive Site

1. **Sign in** to the platform, if you're not already logged in.
  - Make sure you are signed in as your administrative User.
2. **Open** the *Menu*.
3. **Go to** *Site Administration > Go to Other Site > My Sites > Minium Automotive*.



## View the Product Entry for Brake Fluid



1. **Open** the *Menu*.
2. **Go to** the *Control Panel > Commerce > Products*.
3. **Click** the *Brake Fluid* product entry.
  - This will bring up the Details tab for the product, where product descriptions are written and metadata in the form of categories and tags can be assigned.
4. **Click** the *SKUs* tab.
  - Note the multiple SKUs assigned to the product. These are configured to correspond to various package sizes using Product Options.
5. **View** the other tabs for the *Brake Fluid* product entry.
  - Some of these tabs such as Product Relations will appear empty as they need to be configured on a by product basis.



## Brake Fluid

APPROVED

ID: 38570 ?

ERC: MIN93016 ? [Edit](#)

Details

Options

SKUs

Media

Product Relations

Subscription

Configuration

Visibility

### Details

Catalog \*

Minium Automotive

Name \*

Brake Fluid



Short Description



Full Description



Product designed and manufactured to accommodate OEM applications. All products are tested and inspected in an ISO-9000 compliant environment

### SEO

Friendly URL ?

http://localhost:8080/p/




brake-fluid



Meta Title


View the Product Entry for ABS Sensor


1. **Open** the *Menu*.
2. **Go to** the *Control Panel > Commerce > Products*.
3. **Click** the *ABS Sensor* product entry.
  - This will bring up the *Details* tab for the product, where product descriptions are written and metadata in the form of categories and tags can be assigned.
4. **Click** the *Configuration* tab.
  - This tab can be used to set shipping and tax guidelines for the product. It can also be used to manage inventory options such as Low Stock Actions and Availability Estimates.
5. **View** the other tabs for the *ABS Sensor* product entry.
  - Some of these tabs such as *Product Relations* will appear empty as they need to be configured on a by product basis.


 **ABS Sensor** ID: 38550  APPROVED ERC: MIN93015  [Edit](#)

DetailsOptionsSKUMediaProduct RelationsSubscriptionConfigurationVisibility


Details

Catalog 


Minium Automotive 

Name 

ABS Sensor


 en-US

Short Description


 en-US

Full Description


Product designed and manufactured to accommodate OEM applications. All products are tested and inspected in an ISO-9000 compliant environment

 en-US

SEO

Friendly URL 

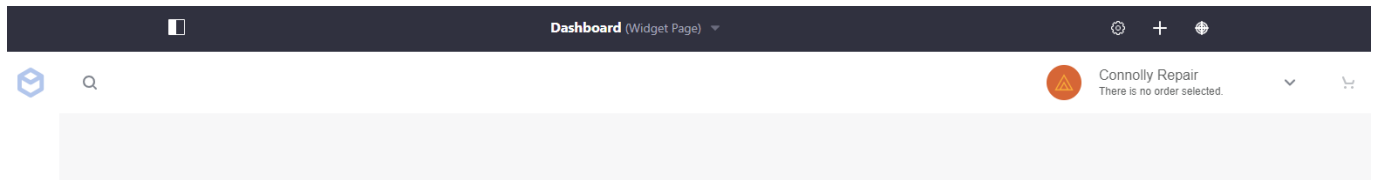
http://localhost:8080/p/abs-sensor

 en-US

Meta Title

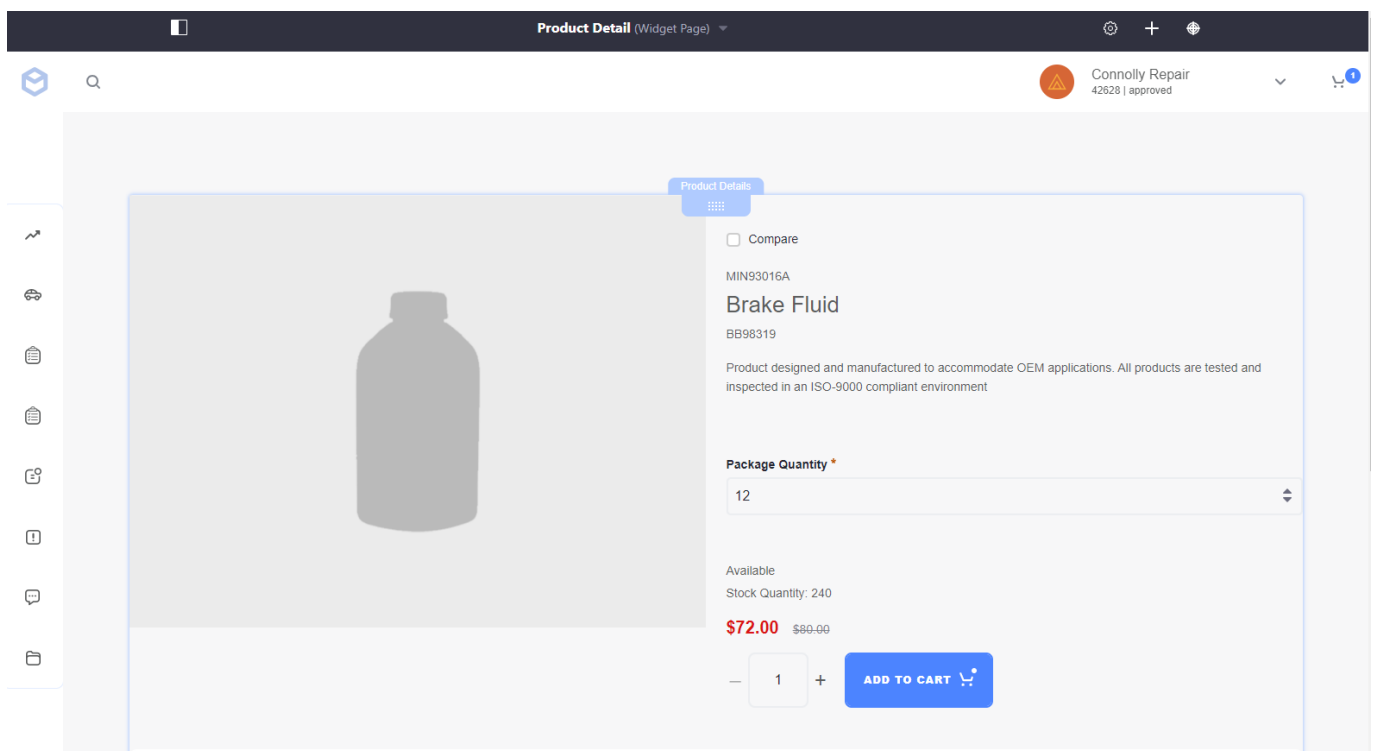
## Select the Connolly Repair Account

1. **Go to** *Site Administration > Go to Site.*
2. **Click** the downward arrow next to the *Cart* icon in the upper right of the screen.
  - The *Minium Demo* Site template will by default choose the *CC West* account.
3. **Click** *Back.*
4. **Click** *Connolly Repair.*





## Add Brake Fluid to the Cart











1. Find *Brake Fluid* in the *Suggested Products* section of the *Dashboard*.
2. Click *View All Variants*.
3. Click *Choose an Option* under *Package Quantity*.
4. Choose *12* from the drop-down menu.
5. Click *Add to Cart*.




## Review the Order for Connolly Repair

1. Click the *Cart* icon.
2. Click *Review Order*.
3. Click the box under *Billing Address*.
4. Choose *Connolly Repair*.
5. Click the box under *Shipping Address*.
6. Click *Save*.







Connolly Repair

TOTAL\$72.00NOTES

ACCOUNT ID40055ORDER ID42628ORDER DATEApr 16, 2020 4:54:56 PM

BILLING ADDRESS

Connolly Repair

SHIPPING ADDRESS

Search

| SKU       | NAME        | PRICE   | DISCOUNT | QUANTITY | TOTAL   |        |
|-----------|-------------|---------|----------|----------|---------|--------|
| MIN93016A | Brake Fluid | \$80.00 | \$0.00   | 1        | \$72.00 | DELETE |

10 items + Showing 1 to 1 of 1

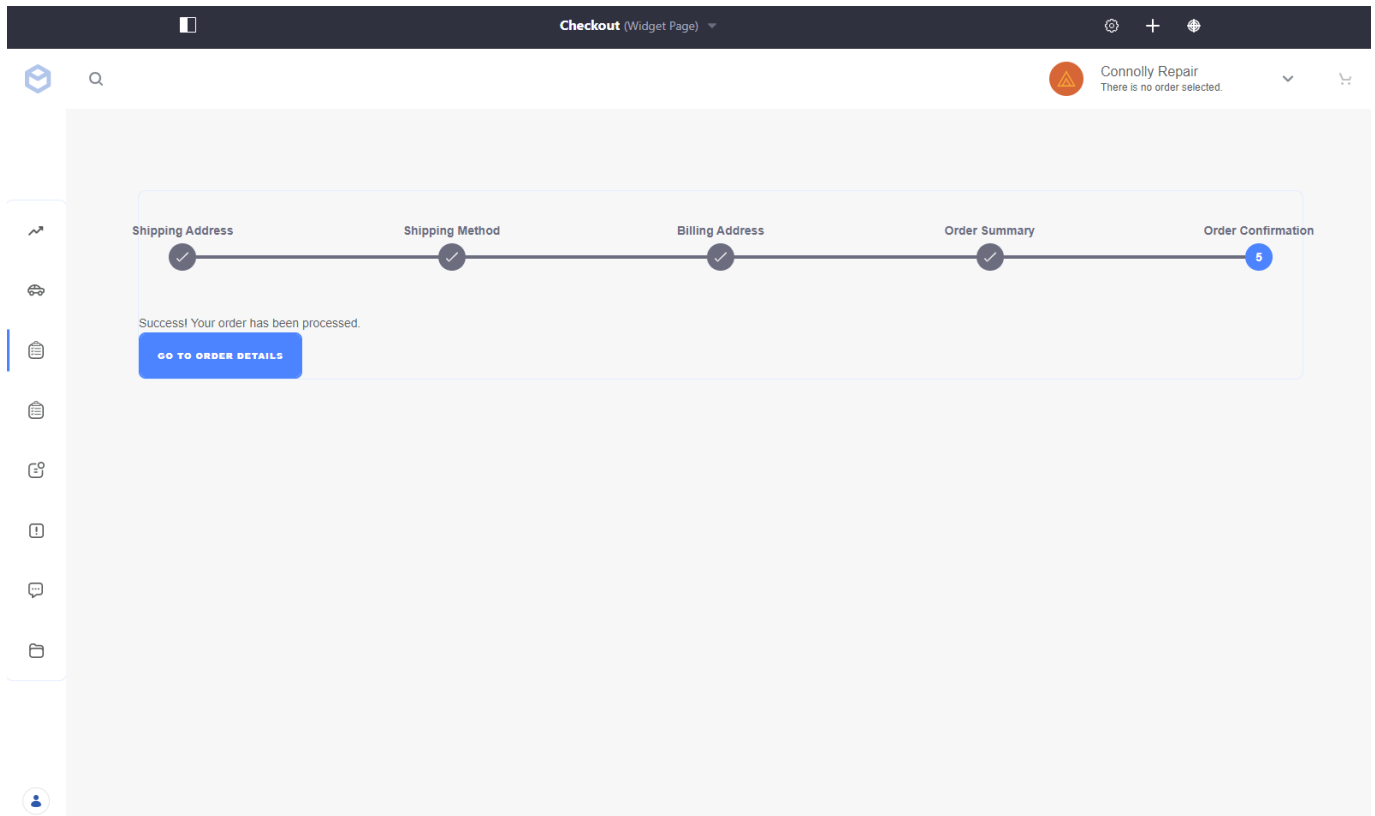
SUBTOTAL\$72.00DELIVERY\$0.00TAX\$0.00TOTAL\$72.00

SAVE

CHECKOUT

## Checkout the Order

1. **Click *Checkout*.**
2. **Click *Add New Address* under *Choose Shipping Address*.**
3. **Choose *Connolly Repair* from the drop-down menu.**
4. **Click *Continue*.**
5. **Choose *Standard Delivery*.**
6. **Click *Continue*.**
7. **Click *Continue*.**



## Process the Order

1. **Go to** *Control Panel > Commerce > Orders.*
2. **Click** the *Options* icon (three dots) next to the Connolly Repair order.
3. **Choose** *Edit* from the drop-down menu.
4. **Click** *Process.*
5. **Click** *Ship Order.*
6. **Click** the *Add* icon under the *Products* section.
7. **Choose** *MIN93016A* from the pop-up.
8. **Click** *Submit.*
9. **Click** *MIN93016A* under *Products.*
10. **Click** the *0* under *Quantity in Shipment* for the *United States - Southwest* warehouse.
11. **Click** the *Up* arrow to increase the quantity to 1.
12. **Click** *Save.*
13. **Close** the pop-up.
14. **Click** *Finish Processing.*
15. **Click** *Ship.*
16. **Click** *Deliver.*



Processing ✓

Ready to Ship ✓

Shipped ✓

Delivered

#### Details

##### Carrier Details

[Edit](#)

Carrier [Click edit to insert.](#)

Tracking Number [Click edit to insert.](#)

##### Shipping Address

Connolly Repair  
205 W Wacker Drive  
Chicago IL 60606  
United States

##### Estimated Shipping Date

[Edit](#)

[Click edit to insert.](#)

##### Estimated Delivery Date

[Edit](#)

[Click edit to insert.](#)

### Bonus Exercises:

1. Create a new order for 4 Premium Brake Pads for CC West. Process the order and use the Italy warehouse for distribution.
2. Use the Honest Auto Repair Centre to order 50 Brake Rotors and 25 Brake Pads. Process the order and use two different warehouses to fulfill the order.



# Creating Comprehensive Digital Commerce Solutions Quiz

1. Where are the majority of Liferay Commerce-specific tools located?
  - A. The Add Menu
  - B. The Control Panel
  - C. The Site Administration Panel
  - D. The Personal Menu
  
2. Which of the following tools is primarily used to filter product visibility in Liferay Commerce?
  - A. Channels
  - B. Catalogs
  - C. Account Groups
  - D. Accounts
  - E. Categories
  
3. Liferay Commerce is a digital experience platform that has been tailor-made for digital B2B commerce.
  - A. True
  - B. False
  
4. Which digital commerce use case(s) can Liferay Commerce accommodate out-of-the-box?  
(Choose all that apply.)
  - A. B2B2C
  - B. Multi-vendor Marketplace
  - C. B2B
  - D. B2C
  
5. Out-of-the-box, Liferay Commerce can support multi-currency and multi-country applications.
  - A. True
  - B. False

## Answer Key

1. B
2. A
3. False
4. C, D
5. True