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1st Gear Locksmithing: START YOUR JOURNEY

Course Duration: (2 Hours)

Section 1: Introduction (10 minutes)

- **What Are Universal Keys?**
 - Definition and purpose of universal keys.
 - Benefits of using universal keys in automotive key programming.
 - **Overview of Key Programming Tools**
 - Introduction to KM100, KeyTool Max, and KeyDIY.
 - Differences and key features of each tool.
 - **Class Objectives**
 - Understanding the capabilities of these tools.
 - Learning the step-by-step process to generate universal keys.
 - Troubleshooting common issues.
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Section 2: Understanding Key Programming and Cloning (15 minutes)

- **How Key Cloning Works**
 - Explanation of transponders and immobilizers.
 - Cloning vs. programming – key differences.
 - **When to Use Universal Keys**
 - Scenarios where universal keys are useful.
 - OEM vs. aftermarket keys.
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Section 3: Overview of Key Programming Tools (15 minutes)

- **KM100 (Autel)**
 - Key features and supported vehicles.
 - Pros and cons.
- **KeyTool Max (Xhorse)**
 - Overview of capabilities.
 - How it integrates with Xhorse's ecosystem.
- **KeyDIY**
 - Universal key generation process.
 - Unique features and applications.

Section 4: Step-by-Step Guide to Generating Universal Keys (45 minutes)

(Each tool will be covered separately with a live demonstration or screenshots.)

A. Using KM100

1. Connecting the device and selecting the vehicle.
2. Identifying the original key data.
3. Generating and programming a universal key.
4. Verifying successful programming.

B. Using KeyTool Max

1. Choosing the appropriate universal key.
2. Writing the transponder and remote data.
3. Testing key functionality.

C. Using KeyDIY

1. Selecting the right remote/key type.
2. Using the app to generate and program a key.
3. Final verification and testing.

Section 5: Troubleshooting and Best Practices (20 minutes)

- **Common Issues and Fixes**
 - Key not recognized.
 - Vehicle not accepting the programmed key.
 - Frequency mismatches.
- **Tips for Success**
 - Ensuring the correct key type is used.
 - Keeping software/firmware updated.
 - Using a backup key before cloning.

Section 6: Q&A and Hands-On Practice (15 minutes)

- Open floor for questions.
- If possible, allow students to try programming a key with one of the tools.

Section 7: Conclusion and Summary (10 minutes)

- **Review Key Takeaways**
 - Importance of universal keys.
 - Key differences between KM100, KeyTool Max, and KeyDIY.
 - Troubleshooting strategies.
- **Final Thoughts**
 - Recommendations for further learning.
 - Resources for key programming.

- **Thank You and Contact Info**
 - Closing remarks.
 - Additional resources or support links.

Section 8: Useful Websites for Key Programming

- **Why Online Resources Matter**
 - Access to key code databases, programming instructions, and troubleshooting guides.
 - Staying updated with the latest key programming techniques and vehicle compatibility.
- **Recommended Websites:**
 - [LockCodes.com](https://www.lockcodes.com)
 - Provides key codes and PIN retrieval services.
 - Useful for locksmiths needing codes for cutting and programming.
 - [ProgramYourRemote.com](https://www.programyourremote.com)
 - Free database of remote and key fob programming instructions.
 - Ideal for quick reference when working on different vehicle brands.
 - [RoyalKeySupply.com](https://www.royalkeysupply.com)
 - Online store for key blanks, programmers, and locksmith tools.
 - Offers technical support and tutorials for key programming.
 - [MyKeysPro.com](https://www.mykeyspro.com)
 - Comprehensive database for key programming procedures and key blank compatibility.
 - Subscription-based service with detailed vehicle key system information.
- **How to Use These Resources Effectively**
 - Bookmark key pages for quick access.
 - Verify key compatibility before purchasing or programming.
 - Stay updated with new vehicle models and key programming updates.