Hello, and welcome!

Have you ever worked on a project that required multiple revisions? You might have made change after change, but then you lost track. Then others on your team made changes, too. You wanted to save some of those modifications. A version control system would have helped you keep track.

Version control is essential for maintaining software and scalability. Any programming project that requires multiple files can benefit from this best practice. Version control empowers teams to collaborate and enhance the software development life cycle. This course introduces you to the basics of publishing, retrieving, branching, and cloning. You will learn how to take advantage of version control systems.

We invite you to take a minute to learn about the course by reviewing the following information. This way, you will be better able to understand the expectations of the course as a whole. Then you can determine how to manage your time and efforts as you navigate through it.

You are in the right place. You belong here. You can do this!
Course Description and Competencies

What to Expect

In this course, you will work through three lessons. The lessons introduce Git, a free and open-source distributed version control system. Each lesson will provide content and activities that allow you to put into practice what you are learning. There are also quizzes and demonstrations. Be sure to do all the activities as you work through the course. Also, be sure to work on your project while you are working through the lessons. This will help you develop your project, and it will help you retain what you are learning.

Once you have engaged with the course material, you can prepare to turn in your project. This project is described on the following pages. You must earn a Competent score on it to pass the course. You will have three attempts to pass it.

- 1 project  
- 1 competency unit

By the end of this course, you will be able to:

- Implement version control processes and solutions that maintain source code.

Course Outline

<table>
<thead>
<tr>
<th>Unit</th>
<th>Upon completion of this unit, you will be able to:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Git Basics</strong></td>
<td>A. Define version control and Git</td>
</tr>
<tr>
<td></td>
<td>B. Describe a distributed version control system</td>
</tr>
<tr>
<td></td>
<td>C. Initialize a repository</td>
</tr>
<tr>
<td></td>
<td>D. Create, edit, and ignore files in Git</td>
</tr>
<tr>
<td><strong>Branches, Merges, and Remotes</strong></td>
<td>A. Navigate the commit tree</td>
</tr>
<tr>
<td></td>
<td>B. Work with branches, tags, and stashes</td>
</tr>
<tr>
<td></td>
<td>C. Compare local and remote repositories</td>
</tr>
<tr>
<td></td>
<td>D. Work collaboratively with a remote repository</td>
</tr>
<tr>
<td><strong>Git for Teams</strong></td>
<td>A. Evaluate a collaborative Git environment</td>
</tr>
</tbody>
</table>
B. Explain how GitLabs works for team development
C. Build a pipeline and development and operations (DevOps) foundation
D. Establish automated unit tests

Technology Requirements

We want to be sure you have the tools to succeed! Review the Computer System and Technology Requirements to learn about the technology you’ll need. If you have questions about your setup, contact support@academy.wgu.edu.

Key Contacts

Your Fellow Learners
Check out the Version Control Lobby in the course site! In this online community, you can ask questions and explore ideas. You can connect with your fellow learners. When you use this site, you will realize that other learners may have the same questions you have. You can all benefit from learning together!

Technical Support
If you encounter technical issues, be sure to contact the Help Desk. Just submit a Support Request for assistance.

Program Support
Do you have questions about your account? Our Academy Support Team has answers. They can help with billing, switching courses, and other requests. You can contact them at (888) 320-0540 or support@academy.wgu.edu.

Accommodations

WGU Academy provides compliant and accessible learning experiences. If you require accommodation, please contact us at the start of the course. You can email StudentAffairs@academy.wgu.edu or call (888) 320-0540. We are committed to ensuring that all students with disabilities have equal access to WGU Academy’s services and materials. We strive to use best practices for accessibility. Our goal is to conform to existing U.S. laws. These include the Americans with Disabilities Act and Section 504 and Section 508 of the Rehabilitation Act. Our learning management system (LMS) platform is Open edX. Open edX’s commitment to accessible content is published on their Website Accessibility Policy.