Technology has transformed the way organizations work. Today, nearly every project includes a technology component. To be effective in any industry, project managers need to understand how software is developed and what role it plays in meeting a project's business objectives.

The Technology Project Management Boot Camp is a challenging, part time program that prepares you to effectively lead technology projects across a variety of industries, from information technology to healthcare and financial services.

Over the course of 18 weeks, you’ll develop in-demand technical, leadership and business management skills. These skills will be applicable to the Professional Scrum Master™ Level I Certification, which can enhance your desirability in today's job market. By the end of the program, you’ll have a professional portfolio that highlights your unique competencies.
Is this Program Right for You?

Whether you're aspiring to become a project manager or looking to accelerate your project management career forward, this boot camp might be a fit for you if you are:

- Looking to pursue a new career in a dynamic and highly collaborative field
- Trying to establish credibility and take your project management career to the next level
- Feeling disrupted and trying to keep current with newer methodologies and project tools
<table>
<thead>
<tr>
<th>Module</th>
<th>What You’ll Learn</th>
<th>Why We Teach This</th>
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</thead>
</table>
| The Business of Software Development       | • The Software Development Life Cycle  
• Software Development Organizations  
• Business Analysis Fundamentals  
• Requirements Gathering  
• Use Case Creation  
• Test Case Development | Technology is transforming every industry, and employers need project managers who can credibly speak with both business and technical stakeholders. Technical fluency will set you apart in today's job market. |
| Traditional Project Management & Waterfall Development | • The Project Management Life Cycle  
• Triple Constraint Theory  
• Integration Management  
• 10 PMBOK Knowledge Areas  
• Waterfall Projects & Tools | Many companies rely on traditional project management methodologies for projects with fixed sequences and constraints. Understanding traditional or waterfall processes will prepare you to successfully manage a range of projects and give you a strong foundation. |
| Agile Methodologies and Scrum Framework     | • Introduction to Agile  
• Scrum Methodology  
• The Kanban Method  
• Agile Project Initiation  
• Agile Project Management  
• Agile Project Execution | Agile project management frameworks are becoming the industry standard for technology projects. You must understand what agile methods are, as well as when and how to apply them in different contexts. |
| Hybrid Project Management                   | • Traditional vs. Agile Methodologies  
• Hybrid Project Management  
• Work Breakdown Structures | In any organization, there is no one-size-fits-all approach to managing projects. Part of being an effective project manager is knowing how to combine the best of traditional and agile to best suit the needs of every project and employer. |
| Project Management in Operations            | • Project Management in Operations  
• Service Management Life Cycle  
• Key Performance Indicators  
• Operational Metrics Tracking  
• Operational Service Level Agreements | A project manager's work doesn't stop once a project reaches closure. Set yourself apart as a project manager who can support operational activities using the most widely accepted IT service management framework. |
| Professional Scrum Master™ I Test Prep      | • Scrum Framework and Applications | Scrum is the most widely adopted agile framework. Earning the Professional Scrum Master™ Level I Certification will clearly demonstrate your job readiness to future employers. |
You will complete the program with in-demand project management knowledge and skills, including*:

### The Business of Software Development
- Software Development Life Cycle
- Business and Organizational Strategy
- Budgeting, Procurement and Vendor Management
- Requirements Documentation
- Process Mapping and Modeling
- Test Cases, Test Scenarios and Test Plans

### Agile Methodologies and Scrum Framework
- Agile Manifesto and Agile Principles
- Agile Scrum Framework
- Story Point Estimation
- Scrum Development Team Formation and Roles
- Scrum Ceremonies
- Product and Sprint Backlog Management
- Agile Value-Based Prioritization
- Sprint Reviews and Retrospectives

### Traditional Project Management & Waterfall Development
- Project Management Life Cycle
- Project Management Knowledge Areas
- Triple Constraint Theory
- Project Plans
- Risk Register and Risk Matrix
- Quality and Stakeholder Management

### Project Management in Operations
- Resource Planning
- Operations Team Communications Matrix
- Maintenance Release Project Scheduling
- Key Performance Indicator Dashboards
- Service Level Agreement Documents

### Hybrid Project Management
- Traditional and Agile Methodologies
- Hybrid Project Management Flow
- Gantt Charts
- Work Breakdown Structure (WBS)
- Sprint Boards for Hybrid Projects
- Project Closeout

*The material covered in this course is subject to change due to market demand.
By the time you complete the program, you can expect to be able to:

| Demonstrate technical fluency with business strategies, project management and software requirements. | Explain each stage of the traditional project management life cycle and create all documentation required to drive a project plan from initiation to closure. |
| Elicit requirements from stakeholders, model them as use cases and use them as input for executing the four phases of the testing life cycle. | Utilize modern software like Jira, Smartsheet and G Suite to build project plans and reports. |
| Apply agile principles to the working environment to conduct release, capacity and velocity planning. | Devise and implement hybrid project management methodologies to support specific organizational goals. |
| Create value stream mapping and risk assessments. | Facilitate the transition of projects to sustainable operations within the business. |
| Conduct sprints and lead all four of the Scrum ceremonies while creating supporting artifacts. | Apply your new skills and knowledge to the Professional Scrum Master™ Level I exam. |
Those who complete the program will be qualified for many different roles, including:

<table>
<thead>
<tr>
<th>Project Manager</th>
<th>Scrum Master</th>
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<tbody>
<tr>
<td>Technical Project Manager</td>
<td>Project Coordinator</td>
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<tr>
<td>IT Project Manager</td>
<td>Project Planner</td>
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<tr>
<td>Agile Scrum Master</td>
<td>Project Specialist</td>
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Course Structure

Over the course of 18 weeks, you will attend regular classes, participate in team projects and work independently inside and outside of the classroom. The goal is to give you a comprehensive learning experience that mimics a day in the life of a technology project manager.

DISCUSSION
You’ll attend instructor-led classes taught by industry professionals who help ensure that you’re obtaining the necessary foundational skills and knowledge.

PROJECT WORK
You’ll work on individual and group projects that challenge you to apply what you’ve learned to real-world problems across multiple industries.

PORTFOLIO PROJECTS
You’ll build a portfolio of projects that demonstrates your abilities to employers and signifies that you are ready to apply your skills in the professional world.
Meeting Employer Expectations

It’s a fact: companies care about what a person can do, not what a person says they can do. For that reason, our curriculum teaches you how to put what you’ve learned to work on actual portfolio projects, ranging from conducting agile risk assessments, to leading app development sprints.
Waterfall Software Implementation Project

You've been hired to plan, execute, monitor and control a waterfall software implementation project for a new client. Start by establishing a comprehensive project plan, charter, schedule and budget. Then, create a key performance indicator dashboard that will help your team evaluate progress toward goals as the project evolves.

Objectives

- Create required waterfall artifacts for a software implementation project
- Execute a project using the project management process and waterfall methodology
- Employ risk management techniques to keep a project on schedule and within budget, while maintaining quality
- Apply project closure steps to a software implementation project

Skills Needed

- Draw.io
- Smartsheet
- Project Dashboards
- Business Analysis
- Executive Communication
- Formal Meeting Management
- Presentation Skills

Software Delivery for Scrum Teams

Your manager has just assigned you to a Scrum team. Your goal is to work through four sprint cycles and deliver a meaningful increment of work to your newest client. As you work through sprint cycles, attend ceremonies and hold retrospectives, you'll need to overcome unexpected obstacles like scope creep or resource realignment to ensure you deliver quality work on time.

Objectives

- Execute a project using the agile methodology
- Practice each role on a Scrum team, understanding the responsibilities of the development team, product owner and Scrum master during sprint planning, daily Scrums, sprint reviews and retrospective
- Create agile project documentation
- Make adjustments for challenges faced during agile project execution
- Demonstrate self-management skills in response to project challenges

Skills Needed

- Communication Plans
- Scrum Ceremonies
- Jira Epic and User Story Tracking
- Kanban Boards
- Velocity Charts
- Scrum Artifacts
- Implementation Checklist
- Virtual Team Meetings
Hybrid Project Leadership

Your newest assignment requires the best of both agile and waterfall methodologies. Create a custom development process that supports the final two sprint cycles and manage user acceptance testing to ensure the deliverable meets your client’s expectations. Then, create a plan to transition the project to the in-house operations team, including writing an operational level agreement.

**Skills Needed**
- Monday.com
- Business Analysis
- Work Breakdown Structures (WBS)
- Canva
- Draw.io
- Transition to Operations

**Objectives**
- Analyze a customer business case to create a WBS
- Create a hybrid project schedule in an industry-standard tool
- Execute two sprints, adjusting for problems encountered during execution
- Write an operational level agreement for the completed hybrid project

Process Improvement Project

After successfully completing three projects, your manager has turned to you to get a struggling project back on track. The project has a plethora of problems, from rotating resources, to running over budget and behind schedule, to an ineffective change management process. You will use an optimization methodology like Lean or Six Sigma to resolve the biggest problems and suggest project improvements.

**Skills Needed**
- Prioritization & Problem Solving
- Identifying Scope Creep
- Rebaseline Project Schedules
- Change Management Process
- Resource Balancing
- Budget Control

**Objectives**
- Create a change management process
- Balance project resources
- Establish a team communication plan and team collaboration
- Prioritize features for development
- Create a plan to control project spending
- Rebaseline a projected schedule
We’re Here To Help

We expect you to have questions as you learn. We’re here to help — through in-person and virtual office hours, as well as a dedicated Slack channel where you can get assistance from instructors, support staff and your fellow peers. You will have access to career services that will help you prepare for employment through activities such as:

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<th>Career Content and Practice Sessions</th>
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<tr>
<td>Database of Customizable Tools and Templates</td>
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<tr>
<td>• Multiple Technical Resume Templates</td>
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<tr>
<td>• LinkedIn Best Practices</td>
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<tr>
<td>• Guidelines to Building a Portfolio</td>
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<tr>
<td>• Creating an Elevator Pitch</td>
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<tr>
<td>• Developing a Bio</td>
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| Online Career Events with Industry Professionals |
| Soft Skills Training |
| One-on-One Career Coaching |