

# **Certified Technical Program Manager (CTPM®)**

Certification Blueprint (v2.0 | 2025)

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#### Introduction

The Certified Technical Program Manager (CTPM®) examination assesses competence across three core areas that are essential to the role of a Technical Program Manager. This blueprint serves as a guide for certification candidates to understand the structure, key topics, and competency areas.

### **Certification Content Outline**

The CTPM® examination includes questions from each of the following disciplines, with associated weightings:

- 1. Technology (44%)
- 2. Program Management (33%)
- 3. People (23%)

#### **Discipline Definitions**

- 1. **Technology**: Focuses on the technical foundation needed for program management, covering system design, architecture, database management, and security.
- 2. **Program Management**: Encompasses processes and methods essential for planning, executing, monitoring, and closing programs effectively.



3. **People**: Addresses leadership and team dynamics, stakeholder engagement, and communication skills required to manage teams and foster productive environments.

## **Tier Definitions**

- **Disciplines**: High-level knowledge areas essential for the practice of technical program management.
- **Responsibilities**: Core tasks that define each discipline.
- Actions: Specific, measurable actions demonstrating competence within each responsibility.

## Technical Program Management Blueprint by Discipline

### Discipline 1: Technology (44%)

Responsibility	Actions
1. System Design and Architecture	<ul> <li>Identify system requirements and architectural solutions.</li> <li>Design scalable system structures.</li> </ul>
2. Technical Knowledge Application	<ul> <li>Apply database and networking fundamentals in program contexts.</li> <li>Implement security protocols.</li> </ul>
3. Systems Performance and Optimization	<ul> <li>Conduct performance analysis.</li> <li>Optimize systems to ensure reliability and efficiency.</li> </ul>
4. Technical Troubleshooting	<ul> <li>Diagnose technical issues.</li> <li>Develop corrective actions to mitigate risks.</li> </ul>
5. Integration of Systems and Services	<ul> <li>Ensure seamless integration between systems.</li> <li>Verify compatibility of new components with existing ones.</li> </ul>
6. Data Management and Analytics	<ul> <li>Implement effective data storage and retrieval solutions.</li> <li>Analyze data to derive program insights.</li> </ul>
7. Security Management	<ul> <li>Establish security protocols and monitor for vulnerabilities.</li> <li>Conduct regular security assessments.</li> </ul>
8. Automation and Tool Utilization	<ul> <li>Identify opportunities for automation.</li> <li>Apply appropriate tools for task management and reporting.</li> </ul>



9. Cloud Computing and Virtualization	<ul> <li>Manage cloud-based infrastructure.</li> <li>Optimize resource usage in virtual environments.</li> </ul>
10. Compliance and Regulatory Knowledge	<ul> <li>Ensure technical solutions meet compliance standards.</li> <li>Document regulatory requirements for projects.</li> </ul>
11. Testing and Quality Assurance	<ul> <li>Develop testing plans for software and systems.</li> <li>Ensure QA standards are maintained throughout.</li> </ul>
12. API and Interface Management	<ul> <li>Develop and manage APIs for integration.</li> <li>Ensure API security and documentation.</li> </ul>
13. Disaster Recovery and Backup Planning	<ul> <li>Create recovery plans for technical assets.</li> <li>Regularly test backup solutions.</li> </ul>
14. Emerging Technology Evaluation	<ul> <li>Stay informed of new technology trends.</li> <li>Assess applicability of emerging tech for program goals.</li> </ul>
15. Network Architecture and Management	<ul> <li>Design and optimize network infrastructure.</li> <li>Implement protocols for network security and scalability.</li> </ul>

# Discipline 2: Program Management (33%)

Responsibility	Actions
1. Program Planning	<ul> <li>Define program scope and objectives.</li> <li>Develop and validate project timelines and milestones.</li> </ul>
2. Execution and Control	<ul> <li>Monitor progress against goals.</li> <li>Adjust plans based on performance data and feedback.</li> </ul>
3. Stakeholder Management	<ul> <li>Engage stakeholders through regular updates.</li> <li>Align program goals with stakeholder expectations.</li> </ul>
4. Risk and Change Management	<ul> <li>Identify potential risks and develop mitigation strategies.</li> <li>Manage program changes in agile frameworks.</li> </ul>
5. Budgeting and Resource Allocation	<ul> <li>Develop budgets aligned with program needs.</li> <li>Allocate resources effectively to maintain program flow.</li> </ul>
6. Scope Management	<ul> <li>Define program boundaries and deliverables.</li> <li>Ensure adherence to agreed scope throughout the lifecycle.</li> </ul>
7. Quality Control	<ul> <li>Implement quality metrics.</li> <li>Monitor and enforce quality standards across program deliverables.</li> </ul>
8. Performance Measurement	<ul> <li>Track KPIs to measure program success.</li> <li>Use metrics to drive program improvements.</li> </ul>



9. Vendor and Contract Management	<ul> <li>Oversee vendor relationships.</li> <li>Ensure contracts are managed according to program requirements.</li> </ul>
10. Documentation and Knowledge Sharing	<ul> <li>Develop and maintain program documentation.</li> <li>Facilitate knowledge sharing across teams.</li> </ul>
11. Compliance and Risk Assessment	<ul><li>Assess risks related to regulatory and compliance requirements.</li><li>Ensure documentation meets standards.</li></ul>
12. Closure and Transition Management	<ul> <li>Plan for smooth transition post-program completion.</li> <li>Conduct lessons-learned reviews.</li> </ul>

# Discipline 3: People (23%)

Responsibility	Actions
1. Leadership and Team Building	<ul> <li>Cultivate team culture and cohesion.</li> <li>Empower team members to take ownership of their tasks.</li> </ul>
2. Communication and Collaboration	<ul> <li>Facilitate clear communication across all team members.</li> <li>Use conflict resolution techniques.</li> </ul>
3. Performance Management	<ul> <li>Provide constructive feedback.</li> <li>Assess and improve team productivity.</li> </ul>
4. Diversity and Inclusion	<ul> <li>Promote an inclusive work environment.</li> <li>Value diverse perspectives in decision-making processes.</li> </ul>
5. Conflict Resolution	<ul> <li>Identify sources of conflict within the team.</li> <li>Apply resolution techniques to maintain team harmony.</li> </ul>
6. Mentoring and Development	<ul> <li>Support team member growth through mentorship.</li> <li>Provide training resources and guidance.</li> </ul>
7. Motivation and Engagement	<ul> <li>Recognize achievements and encourage motivation.</li> <li>Foster team engagement in program activities.</li> </ul>
8. Stakeholder Communication	<ul> <li>Establish clear lines of communication with stakeholders.</li> <li>Ensure timely updates and feedback loops.</li> </ul>
9. Cultural Sensitivity	<ul> <li>Demonstrate awareness of cultural diversity.</li> <li>Adapt communication styles to respect cultural nuances.</li> </ul>
10. Emotional Intelligence	<ul> <li>Understand and respond to emotional cues.</li> <li>Adjust approach based on team members' emotional needs.</li> </ul>