University of Calgary Continuing Education
Edge Up IT Project Management Program

Introduction

A rapidly changing technological environment demands companies to have different information technology (IT) implementation, add new features and functionality to existing systems or create new software. This program is designed to prepare individuals for IT projects by introducing various IT project management knowledge areas, concepts, tools and techniques specific to IT projects. Both traditional and agile project management methods are examined.

This program includes real-life application exercises and a capstone project. The program explores the organizational change management process and complexities involved in executing an IT project. The course will also examine specific behavioural skills needed to address human dynamics challenges in an organization in the context of skills that elevate technical skills beyond project management methods.

Participants of these programs would gain valuable knowledge and experience required to work on projects in organizational digital transformation areas such as technology project implementation, data science-related initiatives, process development, and organizational change related to technology.

This is a full-time program delivered over 5 months and students can expect to spend 20-60 hours per week on course activities including class time and homework.

Program Level Learning Outcomes

Upon completion of the program, successful students will be able to:

- Identify the elements and various knowledge areas required for IT project management
- Describe various project management tools and techniques and how they apply to IT projects
- Discuss how organizations develop and deliver IT project methodologies
- Recognize change management processes and approaches
- Demonstrate both the behavioural and technical skills required to work with teams and diverse stakeholders related to IT project management
- Apply project management strategies and practices to IT projects and initiatives

Topics of Instruction

- Project Management
- Technology Management (Digital transformation)
- IT Functional Skills
- Essential Soft Skills/Business Skills

Intended (Target) Audience

- 'Mid-career' worker that has professional work experience
- Displaced professional from the Oil and Gas sector or related industry
- Has a post-secondary degree or diploma in engineering, earth sciences, or a related technical STEM discipline (ex. engineer, geologist, geoscientist, etc.)
- Others (if applicable and approved by CED)

Course	Instructional Hours	Competency
Project Management	40	Project Management
Leadership in Project Management	40	Project Management
Procurement and Contract Management	15	Project Management
Project Management: HR and Communication	15	Project Management
Change Foundations: Skills for Professionals	15	Project Management
Cloud Computing: An Overview	15	Technology Management
Cybersecurity: Risk, Trends and Solutions	15	Technology Management
Managing IT infrastructure projects	30	Technology Management
Analytics: Empowering Data-Driven Decisions	10	Technology Management
Software Development Foundations	15	IT Functional Skills
Agile Software Development	30	IT Functional Skills
Agile Practice in IT Project Management	15	IT Functional Skills
Facilitation Skills	14	Business Skills
Social Intelligence Transform Relationships	7	Business Skills
Dealing with the Difficult Conversation	7	Business Skills
Effective Decision Making in a Complex Environment	7	Business Skills
Getting Things Done Through Influence	7	Business Skills
Powerful Professionals: Consulting Skills for Leaders within Organizations	14	Business Skills
Business Acumen: Lead with Strategic Business Analysis Tools and Resources	14	Business Skills
Business Technologies: Types, Organizational Trends, Risks & Opportunities in the context of ITPM	15	Business Technologies
IT Project Management: Integrated Project	30	Work Integrated Learning

Course Schedule (August 2, 2021 – December 17, 2021) – Dates Subject to Change

Week	Course(s)	Workload Expectations (hours)
1	Orientation and Digital Transformation	20-25
2	Project Management	40-60*
3	Procurement and Contract Management	20-25
4	HR and Communication	20-25
5	Leadership in Project Management	40-60*
6	Change Foundations: Strategies for Leaders / Cloud Computing: An Overview (2 courses)	35-40
7	Cybersecurity: Risk, Trends and Solutions	20-25
8	Managing IT Infrastructure Projects	35-40
9	Analytics: Empowering Data Drive Decisions / Social Intelligence: Transform Relationships (2 courses)	20-25
10	Software Development Foundations	20-25
11	Agile Software Development	35-40
12	STUDY BREAK	30-40
13	Agile Practice in IT Project Management	20-25
14	Dealing with the Difficult Conversation / Effective Decision Making in a Complex Environment (2 courses)	30-35
15	Business Acumen / Getting Things Done Through Influence (2 courses)	30-35
16	Business Technologies	20-25
17	Powerful Professionals / Facilitation Skills (2 courses)	30-35
18	IT Project Management: Integrated Project	30-40
19	IT Project Management: Integrated Project	30-40
20	IT Project Management: Integrated Project	30-40

*Please note these weeks have a heavy workload and will include a Saturday class. There is time built into the schedule for students to complete their course work and assignments.