



LeanScape – Book of Knowledge

Lean Six Sigma Green Belt



Introduction

Welcome to LeanScape



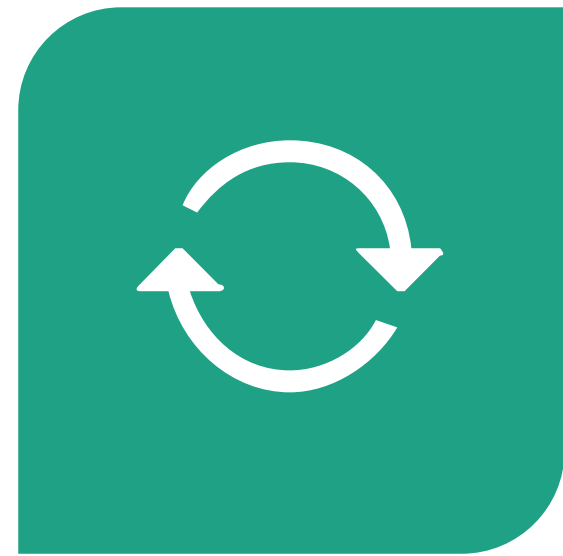
Reagan PANNELL

← — — — →
CEO & FOUNDER

Hi, welcome to LeanScape

LeanScape is a new and unique provider of Lean Six Sigma and Innovation training. We believe the difference comes from our unique approach to mentoring and the community we create.

Reagan is a Master Black Belt with over 12 years experience across a wide range of sectors including Banking, Retail, Leisure & Entertainment, Facility Management and Construction.



Lean Six Sigma

Leanscape offers a full suite of Lean Six Sigma training courses which are personalized to match the clients needs



Lean Innovation

To help drive innovation and entrepreneurial thinking, we also offer Lean Startup training and coach to enable the next generation of ideas



SME Consultancy

We can provide consultancy and expertise across strategy design and implementation, balanced scorecard rollouts and operational excellence.



Online Training

We have partnered with Eloomi and specialized L&D providers to offer a full range of online Lean training for individuals and business around the globe

Courses

We train based on the DMAIC Process



Define

Define the problem that you want to solve



Measure

Identify key measures and baseline



Analyse

Understand the root causes



Improve

Solve the root causes to drive improvements



Control

Ensure the improvements are maintained



YOU WILL COVER THE FOLLOWING DURING THE DEFINE PHASE

- Basics of Six Sigma
- Meaning of Six Sigma
- A general history of six sigma and Continuous improvement
- Understand Lean Six Sigma Projects
- $Y = f(x)$ – the problem solving strategy
- Voice of the customer (internal and external customers)
- LSS roles & responsibilities
- The Fundamentals of Six Sigma
- Defining a process
- Critical to Quality Trees
- Cost of Poor Quality
- Pareto Analysis (80:20 rule)
- Basic Metrics including DPU, DPMO, FTY, RTY, Cycle times
- Project Selection
- Business Case & Project Charter
- Project Metrics
- Financial evaluation and Benefits
- The Lean Enterprise
- Understanding Lean & its history
- Lean & Six Sigma
- The Seven Wastes
- The 5S



YOU WILL COVER THE FOLLOWING DURING THE MEASURE PHASE

- Process Definition
- Fishbone / Cause & Effect Diagrams
- Process Mapping, SIPOC, Value Stream Mapping
- Failure Modes & Effects Analysis (FMEA)
- Six Sigma Statistics
- Basic Statistics
- Descriptive Statistics
- Normal Distributions
- Graphical Analysis
- Measurement System Analysis
- Precision & Accuracy
- Gage Repeatability & Reporducibility
- Variable & Attribute MSA
- Process Capability
- Concept of Stability
- Attribute & Discrete Capability
- Monitoring Techniques
- Sigma Level and Calculations



YOU WILL COVER THE FOLLOWING DURING THE ANALYSE PHASE

- Patterns of Variation
- Inferential Statistics
- Understanding Sampling Techniques, Inference and central limit theorem
- Hypothesis Testing
- General concepts & goals of hypothesis testing
- Risk; Alpha & Beta
- Types of Hypothesis Tests
- Hypothesis Tests with normal data
- ANOVA, Equal Variance testing
- Hypothesis testing with non normal data
- One and two sample proportion
- Test of equal variance
- Normality testing
- Sample size calculation



YOU WILL COVER THE FOLLOWING DURING THE IMPROVE PHASE

- Simple linear Regression
- Correlation
- Regression
- Multiple Regression Analysis
- Confidence Intervals
- Problem Solving
- Lean Start-up Thinking
- Design Thinking
- Innovation & Collaboration
- Pay off Matrix
- Designing pilot improvements
- Cost benefit analysis

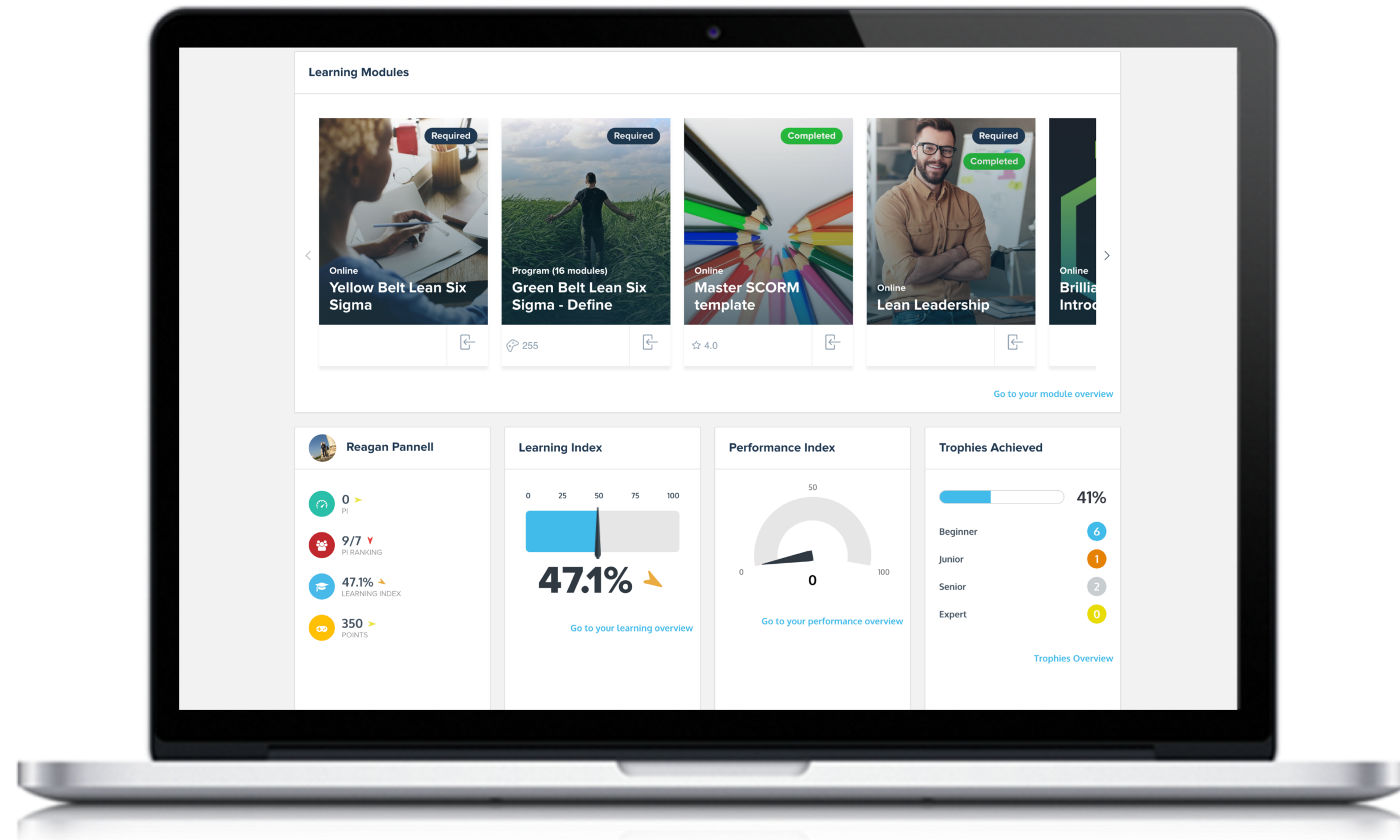


YOU WILL COVER THE FOLLOWING DURING THE CONTROL PHASE

- Lean Controls
- Methods of 5S
- Kanban
- Poka-Yoke (error proofing)
- Statistical Process Control (SPC)
- Data Collection for SPC
- I-MR Chart
- Xbar-R Chart
- U Chart
- P Chart
- NP Chart
- Six Sigma Control Plans
- Cost Benefit Analysis
- Elements of Control Plans
- Response Plan
- Project Close out
- Improvement evaluation and validation

Online Support

A unique platform for L&D, interaction and training



Unique L&D

We offer a unique BETA L&D portal for individuals and organizations



Webinars

We run regular webinars and interactive sessions for candidates to review projects



Community

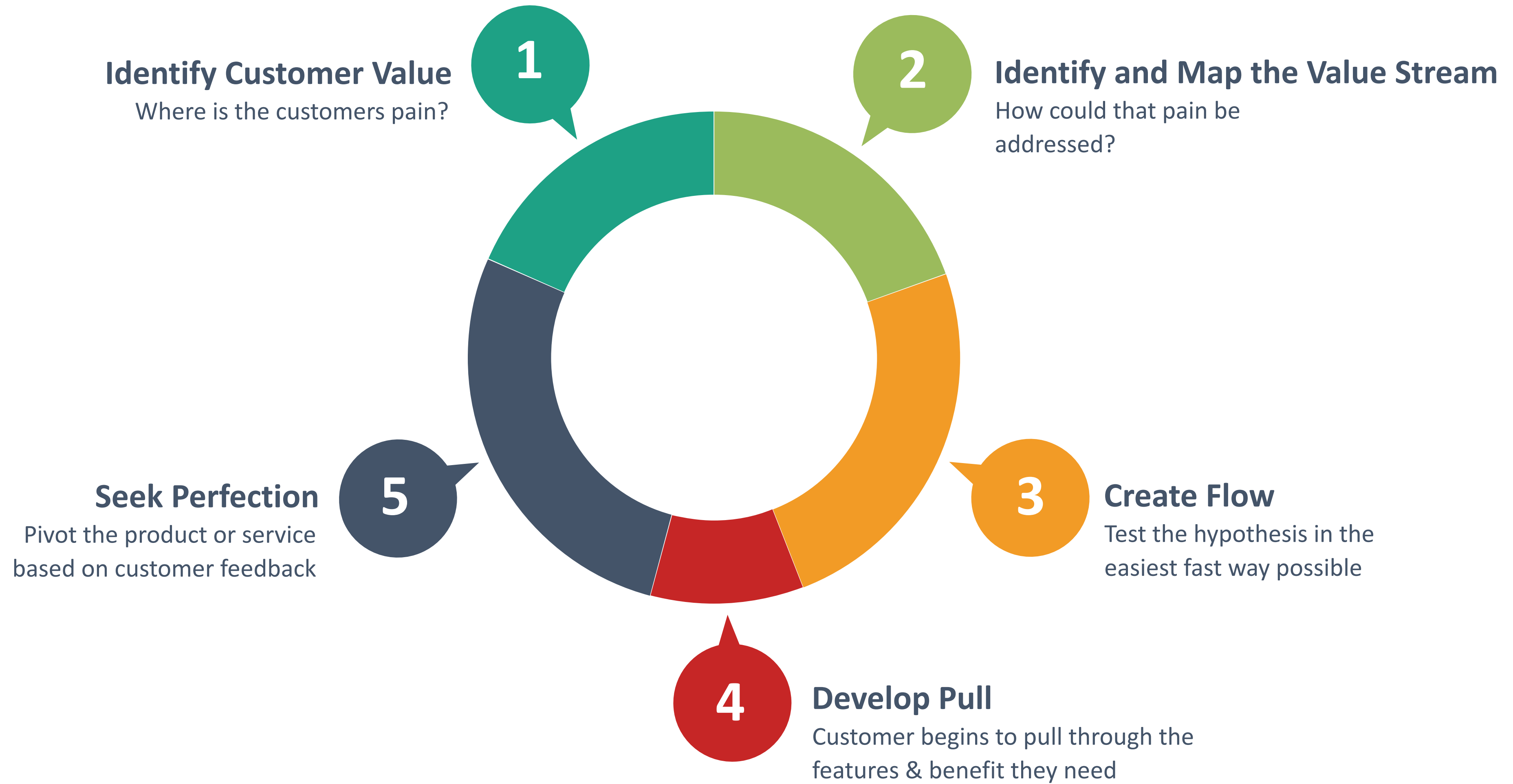
Using Slack, candidates have immediate access to support from other candidates and us

introduction

customer value and waste



The hyper focus on customer value creation and the eradication of anything which gets in its way.





“Lean Thinking defines value as providing benefit to the customer; everything else is waste”

Startup

Definition of a startup



Any human institution designed to deliver
a new product or service under conditions
of extreme uncertainty



LEANSCAPE

Visit Us: www.leanscape.io
Phone Us: +34 683 327 605
Email Us: reagan@leanscape.io