

Uniqueness:

- Team culture
- Ownership mindset
- Engineering mindset
- Growth mindset
- Life-skills
- Holistic approach
- Process thinking
- Problem solving
- AI Understanding
- Showing-Up

Bill Wolfson Project Academy Inc. 9/13/2021



1.0	Introduction	Page 2		
1.1	Background			
1.2	Business needs			
1.3	About Project Academy			
1.4	Our Beliefs (tenants)	Page 3		
1.5	Mission statement/ Outcomes			
1.6	Community benefits			
1.7	Holistic approach			
2.0	Responsibilities	Page 4		
2.1	Yours (attendance, feedback)	Page 5		
2.2	Project Academy	Page 6		
2.3	Follow-on services	Page 8		
2.4	Student engagement			
3.0	Approach to learning	Page 10		
3.1	Elements			
3.2	Rubric			
3.3	Life-skills	Page 14		
3.4	Tools			
3.5	Uniqueness			
3.6	The Agenda… Mike Hammer			
3.7	Math & Writing			
3.8	Training videos			
4.0	Schedule 16-week course	Page 18		
4.1	Course details			
4.1.1	Team operation working together			
4.1.2	Problem solving making things			
	better			
4.2	Weekly program	Page 24		
5.0	Example of a day's training	Page 28		
6.0	Business & Community	Page 32		
6.1	Business			
6.2	Community			
6.3	Reference documents:	Page 33		



1.1 Background:

Our program is designed to give young adults, The life skills and attitude training to become a successful part of the community. The program is designed to be the base foundation to learning technical skills for organization success.

We look for young adults that have:

• a positive Attitude:

• a good Aptitudes **for doing certain** kinds of things easily and quickly. Our approach is to train young adults to be productive and great employees with skills that make them valuable in most service or industrial jobs.

These new employees have the life-skills that companies need to be successful in addition to the technical skills to do the job. The program is over a 16-week period and provides a holistic environment to the student.

1.2 Business Needs:

Businesses are reporting that a major need for their success are employees with life skills such as interpersonal skills, communication skills, teamwork, critical thinking, decision making and problem solving. Our program intends to work with local community & businesses to ensure that we provide these skills in addition to a positive attitude and seeing problems as opportunities.

1.3 About us:

Project Academy is a 501 (C)3 non-profit corp. whose purpose is to serve the community by successfully preparing entry level people & high school students to be productive in the work environment, education & society organizations. Our students see themselves as owners of their own business with a positive attitude, caring for the customers with continuous improvement and looking to learn and get better at what they do.

1.4 Our beliefs(tenants).

1. People will change careers equally as jobs in their life-time.

2. Life-skills are transferable between careers/jobs

3. Think of yourself as in your own business. ... Your boss is your customer. Build your brand.



4. Problems are opportunities ... "the bigger the problem the bigger the opportunity". Vinod Khosla

5. Use the engineering mind-set to focus on all the activities surrounding your work.

6. Most young adults have the capability and desire to do the right thing but need the correct environment to dream

1.5 Our Mission Statement: To have our students see the benefits of using life-skills and a team learning culture that successful connects with business and society organizations. For our employees, we will create a positive environment for their growth. Our purpose is to make our community a better place for us being there.

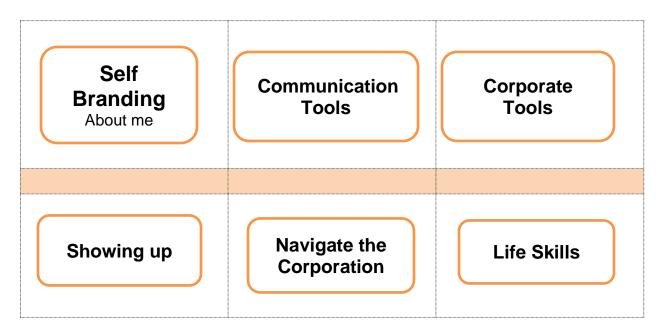
"I didn't value experience as much as character, creativity, and common sense, which I suppose was related to my having started Bridgewater two years out of school myself. and things out is more important than having specific knowledge of how to do something" ... Dalio, Ray. Principles: Life and Work my belief that having an ability to figure

Student take away (Outcomes):

- Acquire self-awareness and apply self-management skills to achieve personal wellbeing and effectiveness
- Act with integrity and make responsible decisions that uphold moral principles Acquire social awareness and apply interpersonal skills to build and maintain positive relationships based on mutual respect
- Be resilient and have the ability to turn challenges into opportunities Be an outstanding employee for the company and grow in opportunities



Foundational Learning Handbook Foundational Skills



Want to hot link this to show details when you hover over box

Tool	Description			
Overview Document	Key Components, such as Teamwork, Attitude, Communications, Social skills, Critical thinking, Organizing & Planning, Professionalism			
Info- Mapping	Makes the document easier to read with labels on the left side of the document and logical break up of information in the document.			
Mind- Mapping	A mind map is a diagram used to visually organize information. A mind map is hierarchical and shows relationships among pieces of the whole. [1] It is often created around a singl concept, drawn as an image in the center of a blank page, to			
Page 4 of 38	September 24, 2021	Project Academy		



Balanced Scorecard	The Balanced Score card breaks the measurement into 4 buckets that are at the core of the business; Finances,
Quality Processing	Customer-Driven Quality Deployment" is a methodology that provides organizations a structured process and tools to improve. Each element below helps make the improvements possible. The whole organization, especially its leadership, must articulate and believe in achieving both break thru and continuous improvements
<u>Gantt</u> chart	A Gantt chart is a project management tool assisting in the planning and scheduling of projects of all sizes, although they are particularly useful for simplifying complex projects.
Flow Map	<u>A flowchart</u> is a type of diagram that represents a workflow or process. A flowchart can also be defined as a diagrammatic representation of an algorithm, a step-by-step approach to solving a task. The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. <u>Wikipedia</u>
Project Management	Project management is the discipline of initiating, planning, executing, controlling, and closing the work of a team to achieve specific goals and meet specific success criteria at the specified time. Wikipedia
Process Sheets	Process planning is a preparatory step before manufacturing, which determines the sequence of operations or processes needed to produce a part or an assembly A route sheet is a document which lists the exact sequence of operations needed to complete the job.
	which associated representations of ideas such as images, words and parts of words are added. Major ideas are connected directly to the central concept, and other ideas branch out from those





	Learning & Growth, Internal processes and the Customer.			
Closed-loop processing	A closed loop control system is a set of mechanical or electronic devices that automatically regulates a process variable to a desired state or set point without human interaction. Closed loop control systems contrast with open loop control systems, which require manual input.			
IOT-Internet -of-things	The Internet of Things (IoT) refers to a system of interrelated, internet-connected objects that are able to collect and transfer data over a wireless network without human intervention. The personal or business possibilities are endless.			
6-Sigma	Motorola'S method of managing the number of errors allowed in a quality process			
Math- graphing	Learning to read a graph and tables. Provide the basic learning for analytics evaluation			
Material- Flow JIT	The <u>just-in-time (JIT) inventory system</u> is a management strategy that aligns raw-material orders from suppliers directly with production schedules. Companies employ this inventory strategy to increase efficiency and decrease waste by receiving goods only as they need them for the production process, which reduces inventory costs. This method requires producers to forecast demand accurately.			
Learning Process	Ownership of your learning Learning promotes starting with a question rather than looking for answers When learning about a new subject as a team, we ask questions around Looking for info about the subject. Additional focus using questions			
Personal Skills	Trust, Respect, Independence, Collaboration, Kindness, Listening, Empathy,			



1.6 Benefits of Pre-Employment Training to the community: Building a community and culture of a learning team: Learn about and how to develop a learning culture that is like a sports team. How to

and how to develop a learning culture that is like a sports team. How to handle disagreements and work together to solve a problem.

Area	Benefits
Society	Character traits, Problem solving, Design thinking,
	Soft-skills, Social & Emotions learning (SEL)
Citizenship	Thinking skills (creative and critical thinking,
	questioning, reflection), Values, Character
	development
Work	Process methods, Collaboration, Innovative
	thinking, Financial understanding
Lifelong learners	Excitement in learning, Risk taking, Feedback,
	Values

2.0 Responsibilities of the student This is your handbook:

"Faber Est Suae Quisque Fortunae" "Everyone is the maker of their destiny" 4th street school, Sydney, Australia

Your initial responsibility:

It is important for you to understand that you will build your own knowledge by using questions of why, how, what, when, & where You will learn to think using creative questions as well as critical thinking question that will support you in your growth in a career or as well college. You will see that you need to become a lifelong learner to survive.

Commitment to each other:

In order to be successful, the organization; Project Academy, and the student must agree to following the training plan, time contracts and commitments of the plan, showing up and being prepared are critical for success both in this training as well as the work environment. Project academy will support the students outside needs of services such as transportation, legal, housing & food. These requirements will be learned in the beginning interview process. Project Academy also commitments to

Page **7** of **38**

September 24, 2021



provide on-going support after the student finds employment. High standards and expectations will be the norm for both parties. The students will commit to viewing this program with a long-term attitude and Grit to get it completed successfully.

2.1 Attendance:

Commitment for attendance is critical for success in this program. It is important to not missing classes during the 16 weeks. This is a skill that is very important in the work environment. Project Academy and your new employer needs to be able to count on your being there. "80 percent of success is just showing up"—Woody Allen

Weekly feedback sessions:

Each week, the teams will discuss the past weeks learning and write down what went right or wrong. The teams will share their perspective with other teams and discuss their finding. Feedback will be shared with Project Academy to improve the program. The results shall be visually posted each week.

2.2 Project Academy's responsibility/culture:

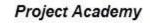
A holistic approach will be used where students' strengths and needs are assessed; a learning environment using project based learning is established for learning college and career readiness skills (CCR) and finally a community structure that is available for on-going learning and

support.

Project Academy will foster a working environment (Culture) that treats individuals as partners. It will establish a community of people who will work together for the common good of the team. Classroom atmosphere will balance trust, risk-taking, originality and respect. It will be an innovation-friendly environment that embraces fast-cycle sharing, supports risk taking, and celebrates learning from failure... establishing a protective environment. The approach of continuous improvement will be practiced throughout the program.

Key Word:	Description:		
Expectations	We will have high expectations to achieve the best results for things we strive for. Our outlook will be to always make things better than what we found.		

Project Academy's culture statement:





different a Believe in people E V	Description: We should be willing to take risk in doing our projects and activities. We are looking for amazing things to be accomplished by all of us. Each of us are unique in what we can do and accomplish. We look for the good versus the bad in our make-up. We should strive to become better in our outlook.
different a Believe in people E V	activities. We are looking for amazing things to be accomplished by all of us. Each of us are unique in what we can do and accomplish. We look for the good versus the bad in our make-up. We
V	We look for the good versus the bad in our make-up. We
	Our organization does not exist alone but is part of a community of others. We should strive to continuously be looking to make it better and be an active member.
ד ד	Caring, Empathy, Striving for the best. Loving kindness, Trust, Respect, Curiosity, Thinking skills (creativity, critical, questions, reflection), Responsibility. No excuses
a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	We should communicate with our fellow team member to achieve results that make them look better and have a positive outlook towards them. Our body language is a smiling face that looks at you in a positive way. We greet each other when we meet. and are polite and not aggressive.
C V	We should take the time to celebrate our actions and communicate what we are planning or achieved. We use visual measurement to communicate and keep each of us posted on our schedule
-	"Faber Est Suae Quisque Fortunae" Everyone is the maker of their destiny
mission and purpose a	Our organization documents are posted, clearly reviewed and discussed. We shall in include where necessary, time frames, measurements and expected outcomes to make sure these items are real.
	Ownership mindset <i>think like an owner</i> Cultural engineering mindset <i>manage tasks around a</i> <i>project</i> Growth mindset <i>The brain is like a muscle use it or</i> <i>lose it</i> Team mindset: <i>work together like a winning learning</i> <i>team</i> .



2.3 Following on services after the training:

Project Academy will provide the students with a monthly evening meeting to provide the following:

- Listening session to understand and provide feedback on student comments.
- Provide support for building their marketing brand.
- Will create a web blog to provide to students for communications.
- Will create following on classes for student supported needs.

2.4 Student Engagement: Have a discuss about the following.

Why do you think it's important to learn life-skills? What key words would they use to describe them? Have you use them in a sports team?

Ask the students:

- What class they had that made them feel good about learning?
- What was it about it that did it for them?
- If they have no answer, what teacher did they have that did not help them and why?
- Why do they think it is important for them to be good learners?
- Identify your highest hopes and deepest fears in life?

Recognize that you own your learning and are responsible for its success

Think of yourself as in your own business of learning, what are you going to do to be successful?

"Students need to change their disposition toward school away from being directed by someone else to an attitude of working for your-self—agency, self-discipline, initiative and risk-taking are all important on the job."

Students should use a to-do list, develop a personal learning plan and create a portfolio of their best work

They learn to self-manage their time, reflect on how things are going again the plan and how-to check-in when they know they need support.

We are creating a new kind of employee... mindset thinking

Page **10** of **38**

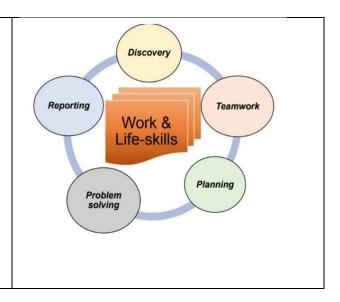
September 24, 2021



- Customer focus & process design
- End to end design
- Inter-personal skills/ team player/ problem solver
- Ably to handle constructive criticism
- Focus on hard work and results
- Desire to learn and excel
- Teamwork and thinking outside the box
- Good communications and non-verbal skills
- Eager to work out issues
- The bigger the problem the bigger the opportunity

3.0 Approach to learning:

- Mindset thinking:
- Questioning process
- Project based learning
- Process thinking
- Al understanding
- A team effort and you
- Life-skills
- Community
- Business math & communication skills
- Problem solving

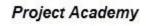


3.1 Elements

3.1.1 Mindset thinking

Students are shown how to be an owner of their own business; what's involved with their customers, suppliers and staff. Thinking like an owner allows you to interface and understand your boss and constantly improving your skills.

Owners mindset	Students are shown how to be an owner of their own
thinking: business; what's involved with their customers.	
-	suppliers and staff. Thinking like an owner allows you to





	interface and understand your boss and constantly improving your skills.	
<u>Engineering</u> <u>mindset</u> thinking	Activities around the process that cover all the details to make it successful. Its assuring that all the team are aware of items, deliverables are met, problems solved, and the customer is informed.	
Growth mindset	Brain Plasticity The brain is like a muscle Use it or lose it.	
https://youtu.be/8VN8jAzw_MA_ ownership mindset		
https://www.google.com/search?q=ownershipatwork.com&nfpr=1&sa=X&ved=0ahUKEwid977uyp7h AhWDdd8KHc-wBN8QvgUILCgB&biw=2316&bih=575 ownership questions		

3.1.2 Questioning Learning The students have to own the process. It's not the teacher asking the question.

Pick a text, picture or video to have the students look/read at about the subject we want them to learn. After they complete to task, ask them the following:

- What question do you want to ask about this Text, Video, Picture?
- What excited you, or made you sad about what we discussed? **Involve the group** ... Do they agree or have other questions or thoughts?
- What question comes to mind as you consider this painting/text?
- What are the different levels of questions like the **Bloom Taxonomy**?

3.1.3 Project based learning... Self-direct learning

- o Getting to know each other
- Team creation ... *learning & building a culture*
- $\circ\,$ Picking a problem to work on
- Problem solving
- \circ Public reporting

September 24, 2021



3.1.4 Process thinking... A series of actions or steps taken in order to achieve a particular end.

The right kind of people will be focused not on the boss but on the customer; not on individual performance but on team performance; not on the task but on the outcome. Process understanding is a key factor in achieving success.

- 3.1.5 **AI Understanding:** Most companies will be experimenting with the introduction and use of AI within its corporate structure. It will take all employees to be part of the successful implementation. From a recent HBR article 6/2019, employees must be verse in the following skills:
 - 1. Interdisciplinary learning and working
 - 2. Self-motivation
 - 3. Data usage
 - 4. Creative ownership

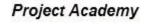
3.1.6 Team approach: Teamwork is a critical skill that people in companies need to be successful. The employees must be well versed in the following skill sets: working with others, helping others, focusing on results, being hardworking, working for the greater good, desiring to learn and excel, eager to work out issues, able to handle constructive criticism, to be good listeners and communicators, communicators, a willingness to be an "unsung hero, ambitious but not to the detriment of others, and assertive but not aggressive. How's that for the dream employee? Aptitude is more about the ability to learn and tends to differ among organizations. A financially focused job requires an aptitude for understanding math. accounting, financial statements, and financial relationships, while a utility or science-based position requires relevant technical skills. But aptitude also includes an ability to understand what others in the organization do. An employee might not need to be able to parse a financial statement, but she has to understand how financial people work and the role they play in the organization's success". Mike Hammer

3.1.7 Business math & written communication skills

Business algebra: Learning about simple equations, graphs and units will be introduced in a fun and thought-full way

Page **13** of **38**

September 24, 2021





Written communications skills: Classes will show how to present ideas and thoughts using key thoughts outline and elevator type presentations.

3.1.8 Problem solving:

3.1.8.1 Optional two week coding class

3.2 Project Rubric:

	Not yet demonstrating	Beginning	Meeting plans	Exceeding
Team Work	Sees this as just a group	Recognizes that this means working together	Understand about a culture	See themselves as making their teammates successful
SEL skills	Not well behaved	Stops to think about control	In control most times	Works well with others
Independent studies	Doesn't know where to begin	Can build a schedule		Does independent work
Problem solving		Knows the steps	Lays out a plan	Masters each step
Business focus	Not sure what this means	Beginning to understand "the Agenda"	Articulate about the customer needs	Can set measurements to make the customer and company successful
Process understanding		Lays out the elements	Can set the flow map	Provides the measurements
Questioning skills	Random questions	Yes/no questions	Understands open ended questions	Uses questions as part of the learning process
Reflection	Does not think of the past	Understands what they learned	Connects the thoughts in discussion of what they learned	Uses their discuss to learn from what they did
Presentation skills	Randomly tells a story	Begins to organize their thought	Organizes their thought	Organizes and understands what their customers need

Use for weekly reviews.

CategoryExceeds ExpectationsMeets Expectations	In Progress	Does Not Meet
--	-------------	---------------



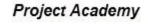
		<u> </u>	1	1
Time Management	-Class-time was used appropriately -Used spare time to add to assignment	-Class-time was used appropriately	-Did not use class time to its fullest	-Did not use class time to work on product
Preparation	-Brings needed materials to class -Is always ready to work	-Almost always brings needed materials to class and is ready to work	-Almost always brings needed materials to class but needs to settle down and get to work	-Often forgets needed materials or is rarely ready to get work
Collaboration	-Effectively works in a group -Takes leadership role or delegated role in group -Lots of communication	-Works in group well -More communication could have benefited the group	-Limited collaboration in group -Others had to take over tasks assigned to you	-Did not participate in group
Attitude	-Student is always respectful of his or her self, others, and teacher, has a positive attitude -Never critical of other ideas or the work of others	-Rarely is critical of ideas or work of others -Often has a positive attitude about the task(s) -Usually treats others with respect	-Occasionally has a positive attitude about the task(s) and behaves in a respectful manner	-Often is critical of the work or ideas of others -Rarely behaves in a respectful manner
Problem-Solving	-Actively looks for and suggests solutions to problems	-Refines solutions suggested by others	-Does not suggest or refine solutions, but is willing to try out solutions suggested by others	-Does not try to solve problems or help others solve problems -Lets others do the work

Sarah Wadehul

3.3 Life-Skills (soft skills): Students become cognitively aware of their life skills while doing activities:

Our approach is unique in that it brings together the needs of both sides in the workplace. Our program shows the new trainees how that can interface with the companies' values while building their strengths to become a

September 24, 2021





needed employee or owner. The company gets an employee with a culture and values that fit nicely into a corporate culture.

The following is a grouping of the life-skills that will be incorporated in the training:

Attitude (positive attitude, focus, emotions, flexible, moral leadership)

Social & emotional learning (character

<u>development</u>, <u>empathy</u>, responsibility, <u>self-esteem</u>, flexibility, self-discipline)

<u>Team-work</u> (charter, respect, values, <u>listening</u>, trust, diversity, culture,) ... working like a sports team

• **Problem-solving** (<u>creative & critical thinking</u>, decisions, planning, curiosity, <u>reflection</u>)

• Personal skills, (financial-literacy, time-

management, communication(verbal & non-verbal, goal setting)

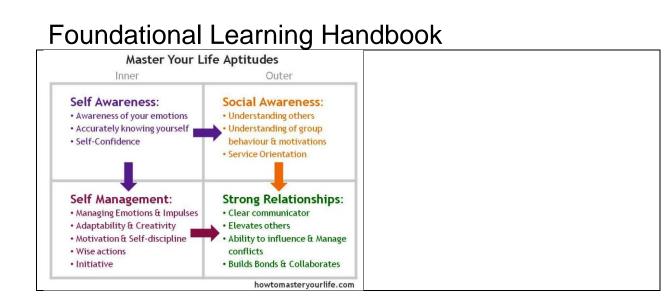
• **Business literacy** (quality, processes, matrices, change management reporting, <u>leadership</u>, judgment, customer focus, info. mapping)

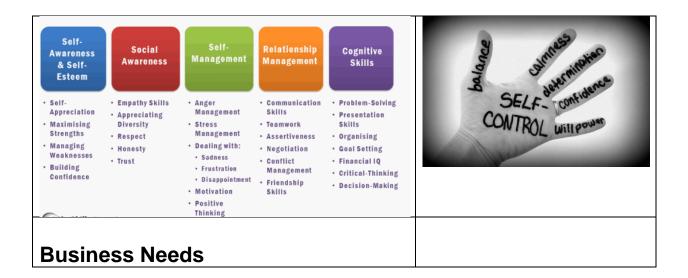
Key individual interface Email, Social networking, YouTube, Self-branding skills (Who you are), Networking

Social & Emotional learning (SEL) graphic pictures

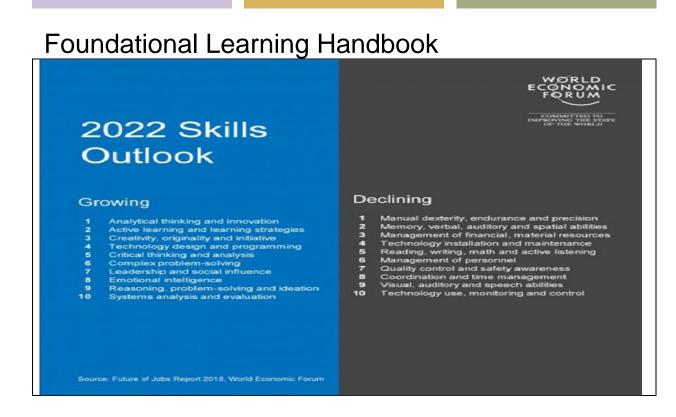
the mental and moral qualities distinctive to an individual	Character development
	Executive functions
	Thinknig skills
	Habits of mind
	Social Intelligence
	Emotional Intelligence











3.4 Learning process/Tools: Tools are used within the learning to make it more fun that engages the student to enhance the learning. Each class hour is broken into three sessions

Class time organization:

- 15 min. of class learning/discussion video's, tutorials
- 30 min. of Exercise / Activities by the teams
- Break

Tools:

- Improv.
- Drawing exercise
- Problem solving
- Team building games
- Socratic Questioning
- Seminars on relevant topics
- Video tutorials available on the web

3.6 The following are our Uniqueness:



The program focuses on teaching life-skills to create a wellrounded individual who will fit into the work environment. It uses the concept of mindset thinking around the following:

- Ownership mindset ... Think like an owner
- Cultural Engineering mindset ... Provide leadership & management of a project
- Growth mindset ... Your brain is like a muscle, use it or lose it
- Team mindset ... To be successful. need to work together
- Brand mindset ... Who are you and how to show the world
- Life skills ... Students become cognitively aware of their life skills while doing activities

3.7 The Agenda by Mike Hammer

Our program incorporates the elements from the book by Mike Hammer that details what a great company must do. These skills are an integral part of curriculum. Our belief and experience is that if the students have internalized these concepts they will make great employee.

1.	Make your-self easy to do business with.
2.	Add more value for your customers.
3.	Obsess about your processes.
4.	Turn creative work into process work.
5.	Use measurement for improving, not accounting.
6.	Loosen up your organizational structure.
7.	Sell through, not to, your distribution channels.
8.	Push past your boundaries in pursuit of efficiency.
9.	Lose your identity in an extended enterprise.
10.	End to end process measurements

September 24, 2021





From our experiences in business & education, we have created a curriculum that sifted out the manual part of work and created thinking employees with unique mindset thinking and life-skills to be productive in your organization. *These are the people that AI will be difficult to replace.*

3,8 Training videos:

Videos that are available on YouTube and other sites will be incorporated in the class room training.

<u>https://www.youtube.com/user/macmillanELT</u> Also available is <u>https://www.skillsyouneed.com/</u> an organization that provide tutorial on life skills.

4.0 Schedule

4.1 Course details:

Major area	Theme
Introduction / Creating a	Attributes, Values, Teacher Skills and the relation to
learning collaborative in	excellence in academics and the larger world of work.
the classroom / pre-	Developing the outcome goals for the class.
Assessment of	Developing the outcome goals for the class.
engineering knowledge	
and thinking skill	
awareness	
Work in teams	Part of Team ProjectCollaboration, decision making, brain writing
Problem framing and	Part of Hands on Learning understanding what the true
solving	problem is and tinkering with ways to solve the problem
Empathy	
Creative and critical	Learn the tools of brainstorming, brain-writing, and decision
thinking skills around the	making for divergent and convergent processing skills
design process	
Brain Plasticity	we continuously are able to learn new things
Growth mindset	Two 30 minutes discussions a total of 60 minutes spent
Carol Dweck, Ph.D	teaching not math but a single idea: that the brain is a muscle. Giving it a harder workout makes you smarter. That
	alone improved their math scores.



Major area	Theme
Claude M. Steele	
Ph.D	
Habits of Mind	Built into projects and continuous discussion
Infusion of thinking skills	Create an appreciation for life-long learning by providing opportunities to develop creative and critical thinking skills
Dialogue	6 Hats How to create dialogue and not shouting matches. Using dialogue question
Professionalism	Respectful dealing with others
Entrepreneurships / Innovation	Business processes Persistence, problems as opportunities, finding humor, accuracy in your work, remain open to continuous learning
Conclusions, Self- Assessment Quality focus	Understand why you did certain things, What can you learn from your actions to improve How can you use data to improve?
Community support Job training Internships Technicians Apprenticeships Mentors	 Get a partnership with industry that provides career opportunity if we provide a person with good soft-skills. Retail stores, Warehouses, etc. Relationship with non-profits that focus on this area.

4.1.1 Team Work

People who work together will win, whether it be against complex football defenses, or the problems of modern society... Vince Lombardi

Organizational Team ... Come together as a team to achieve a common goal.





Elements of Culture – Language • Communication

Symbol
 Gesture, sound, color, design
 Values

- Goodness and beauty
 Beliefs
- Beliefs
 Shared ideas
- Norms
 Rules and expectations
- Rituals
- Rites and Public ceremony

The sum of attitudes, customs, and beliefs that distinguishes one group of people from another.

Culture is transmitted, through language, material objects, ritual, institutions, and art, from one generation to the next.

Schedule

Time	Activity		
	Culture Discussion		
	Community		
	Creating charter		

Organizational Culture

What do we want it to be? •Example: the team/ school will foster a culture of a learning environment, with all treated as adults and with respect.

•Key values are:

•Respect, Trust, Empathy, Kindness, Curiosity, Innovation, Persisting, Flexibility, Continuous learning. Humor and Taking

The community will operate will the following norms:

- Build bridges and learning from other societies
- Working towards stretch goals
- Measurements are for learning and continuous improvement
- Making the world a better place

Creating a team charter First, create a team charter to define the purpose of the team, as well as each person's role. Present this charter at the first team meeting, and encourage each team member to ask questions, and discuss his or her expectations. Next, consider organizing team building exercises. When chosen carefully and planned well, these exercises can help "break the ice" and encourage people to open up and start communicating. The Charter Covers:

- Goals (Fun,),
- How will we be measured at the end,
- Roles that the team will do, (Scribe, Captain, Planner, Advisor, Tester, Public reporter,)
- Our values, ... Curiosity, Trust, Flexibility ,,,
- Deliverables?
- How will we handle conflicts?

Page 22 of 38

September 24, 2021



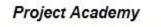


Foundational Learning Handbook Learning aids:

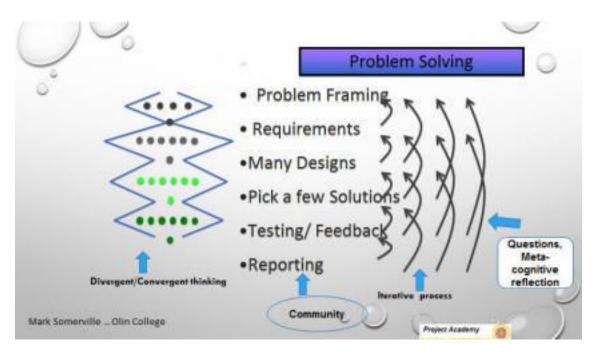
Processes	Activities
<u>One-pager</u>	Conflict resolution
Discussion very good overview to begin	Team charter work sheet
Flow-map of the process	Team roles work sheet
Five principles teaching students to work in teams is one of the most important goals of a twenty-first-century teacher.	Listening skills
 Wonderful Principles Respecting Others Show Support Encourage Participation Give Positive Feedback Listen Before You Speak Honest 	<u>Like a sports team</u>
	Team work sheet

4.1.2 Problem Solving... Tools

Description	Details
Dr. Deming … 14 points Softskills … Conway	Engineering is everywhere Quality Dr Deming CAD software Callaboration Collaboration MATLAB and Simulink O-Hats, Collaboration MATLAB and Simulink Chemistry IOT technology Predictive service and repair processes Matter Creating an after school for learning Engineering/ Technology and Business skills Feedback Manufacturing Engineering/ Technology VIA Softskills Character Development Manufacturing Engineering/ Technology VIA Softskills Character Development Manufacturing Manufacturing Solving/ Thinking Skills Solving/ Thinking Skills Collaboration Mechanical, Electronics, Battery Chemistry Predictive service and repair processes







Task	Explanation
Divergent/	
Convergent	
thinking	
Iterative	
process	
Questioning	http://www.projectacademy.org/Documents/questions_relationship%20 to%20the%20engineering%20Design%20Process_071207.pdf
Problem	http://www.projectacademy.org/fuller/problem-framing.pdf
Framing	
Requirements	http://www.projectacademy.org/Documents/Requirements_03102011.p df
Research	
Many designs	Brain Storming/Writing
	Shaping
Pick	Decision making
Testing/	
Feedback	
Reflection	http://www.projectacademy.org/fuller/reflection-skills-012017.pdf
Dege 24 of 20	Contomber 24, 2021

Page 24 of 38

September 24, 2021



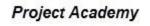
Reporting	http://www.projectacademy.org/Documents/elevator-pitch-
	<u>09182016.pdf</u>
	Preparing the presentation:
	http://www.projectacademy.org/fuller/Presentation%20Day%20Check
	%20list.pdf
Celebration	

How are we going to learn these skills in our project of Teamwork, Problem-solving and Presenting?

- Create a description of the skill and write it up, definition
- Draw a picture
- Do a sketch of the skill as a team
- How do we practice the skill?

4.2 Monthly class details Month 1

Week 1	Day	Learning	Life-skills
Introduction/ Course objectives Problems as opportunities	1	Intro, Ice breakers, M likes (what interests me)	ly Attitude Hand-shake Inter-personal
Teamwork/life-skills	2	Building a team, culture, values	Positive attitude
Who am I? My skills;	3	Role playing, Improv Negotiation	Keeping your focus
Here's an <u>excellent</u> <u>video</u> Culture in an	4	Mapping our learning mindset , brain plasticity	g, Controlling your emotions
organization	5	Why teams are important to be successful	Flexible
Week 2	Day	Learning	Life-skill
 Study project: Trip to the 	Day	Learning Life-skill	
mall to observe retail work force	1	Work place problem to solve	Respecting others
Selecting a problem, Team rules Problem-solving			



I Oundational Lea	<u></u>	<u>, rianabook</u>			
	2	Research the	Ac	ctive listening	
		problem we will			
	3	work on		orking together	
	5	Field trip How do people act when	VV C	orking together	
		serving the			
		customer			
	4	Problem activity	Be	eing reliable	
				0	
	5	Problem solving		nderstanding the	
				oblem-solving process	
		ussion web tools; prol			
		oration 6 hats • Engr.			
Week 3	Day	Learning		-skill	
Study project: Trip to the	1	Testing, Reflection	-	ponding to conflicts in sitive manner	
Waltham manuf. Museum	2	Elevator pitch		bing customers	
or MIT	3	Field trip		e management	
Physical appearance	4	Branding what		ning ahead	
i iiyəlcal appealalice	.	doe it mean and			
		how does it apply			
		to us.			
	5	Work	Wor	k place ethics	
		environment,			
		customer,			
		processes, metrics;			
	Dev	a day at work			
Week 4	Day 1	Learning		Life-skill	
Trip to the Framingham	"	Work environment	,	Info mapping writing	
hospital; Reflection/ Re-due	2	Social & Emotiona	1	Thinking skills	
Personal Hygiene & Dress	-	learning	-	(creative & critical),	
Non-verbal skills				questions &	
				reflection	
	3	Field trip -self-directed		Measurements &	
		work team		Feedback	
	4	Branding, interviewing,		Problems as	
		dealing with others		opportunities	
	5	Preparing for the			
	Diana	project		tion	
	Discussion web tools; problem solving Process • Collaboration 6 hats • Engr. Is everywhere				



Foundational Learning Handbook Month 2 Week 5,6,7,8,

Working as a Team & Problem solving... Follow-up on second 4 weeks

- Create team organization & guidelines
- Pick problem to solve and report on
- Using good reporting tools (elevator pitch, mapping)
- Mistakes are what we learned from

Picking a problem

Interview a sports team

Month 3

Week 9	Day	Learning	Skills
Process designer Customer needs and the	1	Critical & creative thinking	Asking questions
business improvement	2	Communication	Listening
Working between two organizations	3	System thinking	Thinking skills
	4	Common sense	Reasons
	5	Make your-self easy with	y to do business
Week 10	Day	Learning	Life-skill
Assessment/	1	Process	
measurements	2 End to end processing		ng
Balance scorecard	3	Measurement	
	4	Financial thinking	



	5	Reflection	
		1	I
Week 11	Day	Learning	Life-skill
Finance literacy	1	Goal setting	
Entrepreneurship	2	Customer value	
	3	Personal management tool	s
	4	Testing process	Learning from failures
	5	value by engaging	pathways provide g opportunity youth oncognitive skills.
Week 12	Day	Learning	Life-skill
Summary/ Review	1	Elevator pitch	
Failure is a form of learning	2	Presentation skills	
	3	Branding process	How did it change?
	4	Community presentation	
	5	Review	
Elevator pitch: http://www. Presentation check-list: http://www.projectacademy.org/			
`			
Month 4 + Week 13	Day	Learning	Life-skill



Evidence Based: Create	1	Critical thinking	
and iterate approaches based on research and	2	Customer value	
experience with partners	3	Change	
across the labor market		management	
Partnership Oriented:	4	Data analyzes	Learning from
Collaborate with existing			failures
players to pursue the	5	5 Engineering mindset	
fastest, most effective path			
to change			
Week 14	Day	Learning	Life-skill
	4	Due e e e e el e el eur	
Are we creating	1	Process designer	
Are we creating another category of worker?	1 2	Change	
another category of worker?			
another category of	2	Change management	
another category of worker?	2	Change management Infomapping,	
another category of worker? Project Planner?	2	Change management Infomapping, math (algebra,	
another category of worker? Project Planner?	2 3 4	Change management Infomapping, math (algebra,	

Week 15	Day	Learning	Life-skill
Business & Thinking	1	Info mapping	
tools	2	Process diagrams	
	3	Balanced Scorecard	
	4	Flow charts	
	5	Data sheets & Sumr	nary



Week 16	Day	Learning	Life-skill
Technology future	1	AI	
direction AI,	2	Robotics	
Robots, Internet of things & Analytics	3	Internet of Things	
things & Analytics	4	Analytics	
	5	Cerebration	

5.0 Example of a day's training ... Lets focus on training in the team formation

People with the kinds of backgrounds that indicated they were **highly motivated** and had the **ability to learn new ways** of doing things

Module Description	Module Description	Learning Objectives Students will be able to:	Behavioral Goals
Team format	Though a series of activities students will develop a team charter and learn various life-skills for working together Teams will compete in various games & Improv activities.	Understand to similarities of a learning team to a sports team • Relate the team to a community organization	Students will be able to work together and deal with issues in a positive manner • Interpersonal skills will be practiced

From our monthly schedule; Day 2, 5 Week 1... Why teams are

important to be successful

Each classroom hour

- 15 min. of class learning/discussion
- 30 min. of Exercise / Activities by the teams
- Break

Tools

Page **30** of **38**



Improv.	Drawing exercise	Problem solving
Team building games	Socratic Questioning	Seminars on relevant topics

Overview:

create a learning team that has shared values and a set of developed norms; Below are the table of classes from the mail schedule.



hour	Day 2	Day 5
1	Discussion of what is a team	Summary of our team
2	Sports team discussion	Improvement
3	What is Culture	Spaghetti tower
4	Culture	Creating the charter
lunch		
6	Building the charter	Team positions
7	Charter	Boss vs Customer
8	Role-play	Reflection

Team learning

- How should it operate?
- How does it compare to a sports team?
- What are our roles?
- How am I successful?
- How do we communicate and collaborate, together?

Essential Questions



- **1.** What do I bring to the team?
- 2. What are our commitments to one another?
- 3. What differences exist between us?
- 4. How will we operate?
- 5. How will we know we are succeeding?

Team Charter:

- Overview of the Team function
- Measurable team goals, roles, Deliverables
- How will we measure success?
- Expectations ... How are we going to work together? Handle conflicts?
- **Three questions to answer** Yale Center for Emotional Intelligence
 - **1.** How do you want to feel as a team?
 - 2. What can we each do in order to have those feelings more often?
 - **3.** How will we handle conflicts when they arise

Building the team culture

Creating teams- Like a Sports/Music team:

... Listen to each other; become a learning team... What is our culture?

- Overview of the project
- Measurable team goals, roles, deliverables

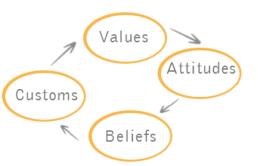
Create a team charter, The Charter Covers:

- Goals (Fun,),
- How will we be measured at the end,
- Roles that the team will do, (Scribe, Captain, Planner, Advisor, Tester, Public reporter,)
- Our values, ... Curiosity, Trust, Flexibility ...
- Deliverables?
- How will we handle conflicts?

teaching students to work in teams is one of the most important goals of a twenty-first-century teacher

Here's an excellent video to help you get started in building your own culture and values.

Project Academy



Comparison to a sport team

• What roles will we have in our

• Diversity, Values of a culture, Listening skills, Collaboration,

Character development

team

• Creating a learning team charter



- **Elements of Culture**
 - Language
 - Communication
 - Symbol
 - · Gesture, sound, color, design
 - Values
 - Goodness and beauty
 - Beliefs
 - Shared ideas
 - Norms
 - Rules and expectations
 - Rituals
 - Rites and Public ceremony

6.0 Business & Community Involvement 6.1 Business

Businesses are reporting that a major need for their success are employees with life skills such as; interpersonal skills, communication skills, teamwork, critical thinking and problem solving. Our program intends to work with local businesses to insure that we provide these skills in addition to a positive attitude and seeing problems as opportunities.

Become a supplier of applicates for Apprenticeship and mentorship programs. Project Academy provides the up-front life-skills while the other programs provide the specific job-related skills.

- A voice of the business ... need to operate efficiently
- A voice of the customer ... What the customer wants and will pay for

6.2 Community

Involving parents in projects is productive for several reasons. Projects show parents what quality learning in the twenty-first century can be.





Parents enjoy seeing their children as motivated, enthusiastic students. And parents recognize that the skills taught through projects will be critical to their children's success.

- Ask parents to serve as judges. Parents can sit on panels for presentations and use rubrics provided to assess student performance.
- During an exhibition, have parents circulate among students and ask questions. Give parents prompts before the exhibition. Debrief with parents.
- Have a student-teacher-parent discussion after the project. What did parents see that they liked? What do they question? What suggestions do they have?
- Plan with parents. Thinking about projects for the year ahead? Sit down with a small team of parents and plan together.

Hammer, Michael. Faster Cheaper Better The Crown Publishing Group. Hammer, Michael. The Agenda

Articles about Workplace Skills:			
Quick guide to teaching workplace skills	Realcare-curriculum- employment-skills		
Mid-career life skills	Hand-book-career- guides		
SoftSkills-give-workers-big-edge	JPMorgan New-skills		
Skill gap & how to address it McKinsey	The growing importance of social skills in the labor market		
Securing a new job			



Creating training pages for the Pre-employment training manuals

Each training plan will have the following elements:

- Background
- Learning details
- Desired outcomes

Topics:

Critical thinking

http://www.projectacademy.org/Documents/critical_thinking_ module_10312013.pdf

Crtical_thinking_module_12232012 powerpoint in Presentation

- System thinking / Visual thinking <u>http://www.projectacademy.org/Documents/mindmapping_1</u> <u>1082016.pdf</u> g
- Using Questions





Objectives are:

- Having students see the **structure** and **fun** in using creativity techniques to learn.
- See how creativity is another tool in
- building exciting learning elements.

EngineeringLens 🧕

http://www.projectacademy.org/Documents/Children%20lear ning%20to%20question_08072012.pdf

- Business thinking Ownership mindset
- Engineering thinking/ design
- <u>http://www.projectacademy.org/Documents/Problem%20Framing_08212012.pdf</u>

September 24, 2021





- Process thinking
- Decision thinking <u>http://www.projectacademy.org/Documents/Decision%20Mat</u> <u>rix_08132010.pdf</u>

Creative & Critical Thinking

Creativity is the bringing into being something which did not exist before, either as a product, a process or a thought.

Critical thinking is a way of thinking that enables us to think at the highest level we are capable of.

Critical Thinking

Analyzing the past

* What evidence?

* What is the author's purpose?

* Convergent thinking

* Skepticism is a virtue

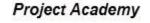
Creative Thinking: Creativity improves

pupils' self-esteem, motivation and achievement

Brain storming Divergent thinking Exploring your environment & testing many options Stimulate curiosity Innovation & entrepreneurship

Meta-cognitive reflection

- * What do I want to understand?
- * What have I learned?
- What do I still need to learn?
- * Provide feedback for reflection
- * Regulate ones behavior





Questions ... Engaging the student

- * Logical Sequential
- * Open ended
- * Listening is the first step in good Questioning
- * Provocative
- * Engage
- * Encourage higher order thinking

Critical thinking

http://www.projectacademy.org/Documents/critical_thinking_modu le_10312013.pdf

Title: Critical thinking learning module

Background: One of the key aspects of any project or task is the gather information concerning the problem you are trying to solve. You will relie on the truthfulness of this information to help solve the problem. How do you know if the information is accurate and correct? In todays world of "Fake News" it is very important that you apply critical thinking process to the information you are gathering.

Crtical_thinking_module_12232012 powerpoint in Presentation

Learning details:

- · Analyzing the past
- What evidence?
- What is the author's purpose?
- Convergent thinking
- Skepticism is a virtue



Convergent Thinking ...tending to move toward one point or to approach each other : <u>CONVERGING</u> <*convergent* lines>

Lesson Plan: Provide a statement and ask the teams to determine

if its true and the reason why.

- Asks appropriate clarifying questions
- Judges well the quality of an argument, including its reasons, assumptions, evidence, and their degree of support for the conclusion
- Formulates plausible hypotheses
- Defines terms in a way appropriate for the context
- Draws conclusions when warranted but with caution

