

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) dated as of 27 April 2021 between Southwest Virginia Community College (SWCC) and Pure Salmon Virginia LLC provides proposed workforce development and training solutions that will be offered through SWCC at current/standard pricing rates to support the workforce of Pure Salmon Virginia LLC. It is understood that certain facilities and equipment to support this workforce development and training may be funded by the Virginia Coalfield Economic Development Authority (VCEDA), and in such event, workforce development training will be provided by SWCC also at standard pricing rates, utilizing those facilities and equipment. In the event Pure Salmon Virginia LLC has not begun construction on the facility by December 31, 2020 and/or not opened for operations including commercial production and sales within the SWCC service region by September 30, 2023, then this MOU shall be null and void.

The parties also acknowledge that as part of the overall Virginia Project, to build a dedicated 10,000 ton salmon production facility using advanced RAS technology to include a processing plant for the fish produced, a separate operating entity might be formed to operate the fish production facility to be constructed on the Southwest Virginia Community College Foundation property. If this were to occur, it is understood and agreed that Pure Salmon Virginia LLC will be assigning its interest in this MOU to that operating entity such that all rights and benefits held by, and all duties and obligations owing by Pure Salmon Virginia LLC under the terms of this MOU shall flow to and be binding upon such operating entity and SWCC. At such time as the new operating entity is formed, Pure Salmon Virginia LLC, SWCC and the operating entity shall execute a formal assignment so as to provide documentation to evidence the assignment of all of Pure Salmon Virginia LLC's benefits and obligations under this MOU to the said operating entity.

Below are the workforce development and training solutions proposed by SWCC under this MOU:

### Pure Salmon Virginia LLC Proposed Training Solution Courses

\* See Attachment 1 for an overview of these courses

1. Manufacturing Technician 1 (MT1) Certification  
\*see Attachment 2 for MT1 skills overview
2. OSHA 10
3. First-Aid
4. Team Building
5. National Career Readiness Certificate (NCRC)

Training Name	Hours	Certification	Class Size
Manufacturing Specialists and Technician	112	Manufacturing Skills Institute- MT 1	8
OSHA 10	10	OSHA	8
First-Aid	6	Accredited Organization (such as Red Cross)	8
Team Building	4	SWCC	8
Career Readiness Certificate	3	American College Testing (ACT)	8
<b>Total</b>	<b>135</b>	<b>6 Certifications</b>	

Based on the class size of eight (8), total cost per each student/trainee for the above classes will be \$1,929. Following is a breakdown per class:

Class	Cost Per Student/Trainee, Per Class
MT1	\$ 1,643
OSHA 10 and First-Aid	\$ 226
Team Building	\$ 25
NCRC	\$ 35
<b>Total</b>	<b>\$1,929</b>

*The college and the company mutually agree to develop an aquaculture-focused course which has direct relevance to the operations of the Virginia facility and as a replacement for the MT1 course listed above. It is expected this process will begin in Q2 2022 once we have completed the Pure Salmon Academy development.*

SWCC intends to work with Pure Salmon Virginia LLC to offer customized training in aquaculture to support Pure Salmon Virginia LLC operations. The curriculum will cover the basis of each and provide opportunities for individuals interested in growing their knowledge. Students/employees will learn industry basics, operational best practices and process controls. Per student/trainee cost will be \$11 per classroom hour, excluding any additional costs deemed required for the customized training, including but not limited to materials, supplies, or other costs that are not provided by Pure Salmon Virginia LLC. The overall final cost of the customized training will require consideration and evaluation of final determined training components, deliverables, and outcomes, but be in accordance with SWCC's current/standard pricing rates.

**College responsibilities:**

As a condition of accepting this MOU, SWCC agrees to the following:

- Provide the training highlighted above with a minimum of 90 days notification required by Pure Salmon Virginia LLC of the start date for each training course/certification to allow for course preparation.
- Provide an employee to serve as a liaison to Pure Salmon Virginia LLC to schedule training, payment, and other actions necessary to carry out the terms of this MOU.

**Pure Salmon Virginia LLC responsibilities:**

As a condition of accepting this MOU, Pure Salmon Virginia LLC agrees to the following:

- Provide full payment for all training two weeks prior to the training course(s) start date
- Ensure that a minimum of 8 students/employees are enrolled in each training class
- Assist as necessary to complete applicable applications and documentation for any student/employee eligible for any of SWCC's tuition funding assistance programs, including but not limited to FastForward and other training programs.
- Provide a primary Pure Salmon Virginia LLC contact/representative to work directly with SWCC to plan training, interact with students/trainees as needed, and facilitate any part of the training and this MOU as needed.

*c. fw*

**Term/Termination**

This MOU shall be for an initial term of one (1) year commencing on the last date of execution by the parties and automatically renew each year for an additional one-year period unless a party provides notice of termination or non-renewal at least thirty (30) days prior to the end of the term. Either party may terminate this MOU with or without cause upon sixty (60) days' prior written notice to the other party.

**Independent Contractor**

The relationship between the parties is that of independent contractors. Nothing contained herein shall be construed as constituting any other relationship between the College and Pure Salmon Virginia LLC.

**Modification**

This Agreement can be modified or amended only by a writing signed by the parties.

**Force Majeure**

The College will not be responsible for any losses resulting from delay or failure in performance resulting from any cause beyond the College's control, including without limitation: war, strikes or labor disputes, civil disturbances, fires, disasters, declared states of emergency, epidemics, and acts of God.

**Governing Law and Choice of Forum**

This Contract shall be construed, governed, and interpreted pursuant to the laws of the Commonwealth of Virginia. All disputes arising under this Contract shall be brought before a proper state or federal court in the Commonwealth of Virginia.

**Liability**

The parties agree to be responsible for the acts and omissions of their respective officers, employees, and agents, and for any damages and costs arising from any breach of this MOU.

**Sovereign Immunity**

Nothing herein shall be deemed a waiver of the sovereign immunity of the Commonwealth of Virginia.

**Entire Agreement**

This Agreement constitutes the entire understanding of the parties and supersedes all prior oral or written agreements.

**Projected Outcomes**

SWCC and Pure Salmon Virginia LLC agree to work together to ensure that all targeted students/employees are trained in the courses/certifications highlighted above. In addition to the programs and courses specified in this document, SWCC offers regular courses and programs in Advanced Manufacturing, Industrial Maintenance and Mechatronics.

ACCEPTED AND AGREED TO:

Southwest Virginia Community College (SWCC)

BV:  \_\_\_\_\_  
Title: Dr. Tommy Wright, President

Pure Salmon Virginia LLC

*afw*

By: Chubferg Wang  
Title: MANAGER

Attachment 1 – Overview of Courses

**1. Manufacturing processes and basic skills aptitude (MT1):**

The Manufacturing Technology (MT) training program is a highly specialized course based on the techniques and interrelationships found in high performance manufacturing and production. Instruction focuses on the critical actions, knowledge, systems, and processes necessary to participate in an advanced manufacturing enterprise. Activities include a focus on math and measurement; quality and continuous improvement practices; and, advanced manufacturing processes and production. Participants develop high performance skills through demonstrations, lectures, self-paced studies, labs, technical presentations, critical thinking, problem solving, and individual/group activities in order to demonstrate the core set of skills and knowledge necessary to prepare for sustained careers in the high-performance manufacturing environment.

These courses will assist the student/employee in learning how to evaluate basic algebraic expressions and utilize industry tools to accurately measure critical process variables. The student/employee will also learn how to apply mathematical formulas to convert units and develop mathematical relationships to solve for one unknown. These courses will expose the student/employee to the critical areas of manufacturing and the applied technology principals that support the process. The module includes courses on: spatial reasoning, mechanics, fluid power and thermodynamics, electricity, chemistry, and manufacturing processes & controls.

These courses are designed to describe the critical elements of developing a lean culture in manufacturing. Upon completion of these courses the student/employee will be able to apply a scientific problem-solving method in addressing constraints in manufacturing and as well as identify continuous improvement opportunities intended to result in production efficiency and reduced operation costs to Pure Salmon Virginia LLC.

The Manufacturing Technician 1 © (MT1) certification program was developed to meet the growing employment demands of the manufacturing industry. The MT1 program addresses the core industry-wide skills standards required for skilled production occupations in all sectors of manufacturing. The core competency areas certified are: (1) Math and Measurement, (2) Spatial Reasoning and Manufacturing Technology, and (3) Business Acumen and Quality.

The purpose of the MT1 certification program is to document individuals' mastery of the critical competencies required for modern manufacturing production and production-related occupations. The goal of the MT1 certification program is to:

- A. Develop a workforce pipeline capable of meeting the requirements of existing and emerging employers in advanced technology industries such as manufacturing,
- B. Provide a customized fast track, pathway to stackable credentials for 21st Century advanced technology careers in industry,
- C. Provide instructor-led training to address identified technical skill gaps, and provide a pathway to advanced level training and specialized training based on industry requirements for potential new hires and incumbent workers.

*afw*

The Manufacturing Technician Level 1 assessment measures individual skills attainment in 12 critical technical skills.

The complete MT1 assessment includes three certificate modules: Math and Measurement; Spatial Reasoning and Manufacturing Technology; and, Quality and Business Acumen. MT1 applicants must earn all three certificates to qualify for the MT1 Certification and two of three to earn the Manufacturing Specialist Certification.

## **2. OSHA 10:**

The OSHA 10-hour courses provide information needed to help line workers, as well as foremen, supervisors, managers, superintendents, competent persons, safety staff, safety committee members, safety managers, and others, be more aware of health and safety hazards so they can be avoided. The OSHA 10-hour training courses also includes a brief overview of how the Occupational Safety and Health Administration (OSHA) functions, and the rights of employers and employees.

## **3. First-Aid:**

Through this first aid certification class, the student/employee learns how to respond to specific situations, which will help care for people in crisis as they wait for medical professionals to arrive. Designed to help non-medical professionals provide assistance in times of crisis, this course will allow the student/employee to gain an understanding of first aid best practices for a wide range of conditions, including: Asthma emergencies, Anaphylaxis, Burns, Choking, Diabetic emergencies, External bleeding, Environmental emergencies, Heart Attack, Poisoning, Neck, head and spinal injuries, Stroke, and Seizure. In addition, our first aid classes typically cover information on administering CPR and using AEDs – allowing certification in all three (first aid, CPR and AED) in one convenient class. This gives them the best opportunity for a positive outcome – and gives the company the opportunity to maintain a safe work environment.

## **4. Team Building /Customer Service:**

A motivating look at the importance of preparation, teamwork and connecting with your customers through great customer service. Great for front line employees. This training is designed to inspire the student/employee to give their very best on a day-to-day basis.

## **5. National Career Ready Certificate:**

The ACT National Career Readiness Certificate (ACT NCRC®) is an assessment-based credential powered by ACT WorkKeys®. Issued at four levels, the ACT NCRC measures and certifies the essential work skills needed for success in jobs across industries and occupations. The ACT NCRC is widely used by employers, educators, workforce developers, and others with a stake in the success of the economy. More than 2.3 million ACT NCRCs have been issued nationwide since the credential was introduced in 2006.

ACT NCRC highlights:

- Awarded at four levels—Platinum, Gold, Silver, and Bronze
- Powered by ACT WorkKeys research-based assessments
- Measures and certifies broadly relevant foundational work skills
- Recognized and recommended by thousands of employers
- Recommended for college credit by the American Council on Education (ACE)

Serves as the basis of state- and county-level workforce and economic development initiatives

## Attachment 2 -Manufacturing Technology (MT) training program skill sets overview

### Measurement

- Demonstrate using a Decimal Inch Machinist's Rule to Measure a Length
- Using a U.S. Ruler and Tape Measure to Measure a Length
- Using a metric ruler
- Measuring liquids/weights in Metric and U.S. Customary Units
- Converting Between Common Fraction Inches and Decimal Inches.
- Convert Between U.S. Customary Units and SI Metric Units.

### Algebra for Manufacturing

- Perform correct order of operation to simplify mathematical expressions.
- Generate linear equations with one unknown for situations described in text.
- Solve simple linear equations with one unknown.

### Math for Quality

- Read and interpret histograms, bar charts, line graphs, and scatter plots.
- Interpret descriptive statistics: Mean median, mode, and range.
- Demonstrate qualitative reasoning for situations involving statistical data and probabilities.

### Spatial Reasoning

- Visually translate from 2D drawings to 3D images and back
- Identifying different views for given isometric drawing of an object.
- Identifying the different elements of an object in various views
- Predict behavior of visual representations of simple mechanisms

### Mechanics

- Demonstrate qualitative reasoning about mechanical force and systems involving pulleys, levers, and gears.
- Determine mechanical advantage of different systems of pulleys
- Determine effects of different lever configurations on the force required to lift an object
- Generate different configurations of gears and axels to increase power or speed.

### Fluid Power and Thermodynamics

- Generate causal explanations of behavior of (a) simple systems involving changes in pressure, temperature and volume, (b) simple hydraulic/pneumatic devices and (c) principles of heat transfer.
- Predict the effects of changes in pressure on volume and temperature
- Predict the effects of changes in temperature on volume and pressure
- Predict the mechanical advantage of simple hydraulic and pneumatic systems.

### Electricity

- Generate causal explanations of the relationship between electrical and magnetic forces and explanations of how electric motors, generators, solenoids, and relay switches behave.
- Generate causal explanations and predictions of electric circuit behavior involving simple series and parallel circuits containing relays, capacitors, resistors and simple devices such as light bulbs and pumps.

## Chemistry

- Core Concepts: Classify substances as a molecule, element, mixture, or compound; classify changes in substances as chemical reaction, mixture, or physical change; classify and apply characteristics acids and bases; interpret the periodic chart; and classify methods for separating mixtures (filtration, evaporation, distillation).
- Chemical Reactions: Explain chemical bonding and structural changes that take place in common chemical reactions and interpret chemical formulas and equations. Polymers: Generate explanations of molecular structural difference and physical characteristics between common types of polymers such as slime, flexi-putty, rubber and plastic bags.

## Manufacturing Processes and Controls

- Generates the Sequence of Operation and a Flow Diagram for production tasks and processes.
- Generate explanations of how electrical-mechanical controls and sensors operate in simple systems and devices.
- Create flow charts for models (mock-up) of simple computer-controlled systems such as a traffic light or washing machine.

## Quality and Lean Manufacturing Concepts

- Identify descriptions of manufacturing quality and lean production initiatives as examples of value stream mapping, waste elimination, 5S, DMAIC, and Total Productive Maintenance (TPM)
- Create a process map and value stream map to improve a process or reduce waste
- Demonstrate using an industry standard problem-solving method such as DMAIC for improving production processes. Currently using DMAIC.

## SPC Basic Concepts

- Determine plausible causes in fluctuations in processes based on statistical information (mean, range, & variation patterns)

## Business Acumen

- Predict how actions, strategies, and decisions impact the bottom line.
- Classify examples of common business financial terms