

A **System** is a group of interacting elements acting in accordance with a set of rules to form a unified whole. It is an organized framework defined by the set of principles and procedures designed to achieve a common purpose. In manufacturing terms, a **Production System** is the combination of actions and processes used throughout the production of goods.

These concepts first arose in the automotive industry with Toyota, where standardized processes and production lines enabled the lean manufacturing techniques that were captured in the Toyota Production System. These concepts quickly spread to other industries. Now nearly all major manufacturing from furniture to aerospace is executed with a production system paradigm to achieve greater velocity and value to the customer. Shipbuilding is clearly different from automobiles. There is not a ship coming off the production line every 30 seconds, submarines are low volume production with extended build cycles over several years. So is the Production System model worth considering?

The answer is definitely “Yes”.

Operations, with the support of the Construction Readiness teams at Quonset Point and Groton, has been exploring the implementation of a Production System approach to submarine construction. Many of our construction processes are not stable, they have high variability and lack repeatability and predictability. When measured, the operational efficiency of many of our manufacturing process are less than 50%. This is often accepted as the nature of shipbuilding but it doesn't have to be that way. While some of our instability is a result of external influences, much of it is the result of our own internal processes. The goal of an EB Production System is to achieve true operational excellence through the consistent application of standard proactive planning, preparation and management processes. It will become the set of rules, guiding principles, tools and their standard application that will define our manufacturing processes and institutionalize a structured construction approach. Covering all aspects of our business from build sequence, process design, standard methods, equipment readiness to capacity & resource planning through execution institutionalizing a Production System approach will increase the availability and quality of design and planning products; improve material availability; improve accuracy in the manpower planning, spatial planning, critical resource demands and daily planning processes; allowing for a more effective and efficient execution of the manufacturing plan.

EB's Production System consists of 14 specific elements aligned to three major subsystems; Plan, Prepare and Execute.



PLAN

The Plan Subsystem is intended to optimize the manufacturing schedule of major milestones and align them to Takt times to eliminate variation in the manufacturing and outfitting processes. Additionally, it will integrate capacity planning and controls into construction schedules and utilizing detailed work sequenced schedules and standard work methods tied to work packages with repeatable kits of material.

PREPARE

The Prepare Subsystem focuses on creating optimized, time-phased work center layouts with standard unit set-ups and establishes a construction pre-start process with time fence rules and actions to ensure accountability for all deliverables to support construction start and identification of risk areas and impact assessment.

EXECUTE

The Execute Subsystem establishes standard tools and work management practices for Operations management, develops process based metrics to better set daily goals and expectations and implement shop floor visual management techniques.

Some of these elements have been called ‘Back to Basics’ or ‘Manufacturing 101’ and, in many ways they are. However, the success of a system lies not the sum of its parts but in the product of its interactions. We need to look at our production not as individual parts but as pieces working together; organizations not executing to their priorities but truly aligned to a common goal - delivering value to the customer. As an Electric Boat team, the challenges we now face require us to change from our traditional paradigm and to think and act differently to be successful.

Robert Barlow

Senior Manager - Industrial Engineering

1st Shift Van Pool Looking For Riders!

Starting Point: Jewett City, CT

Travels through: Voluntown, CT

Current last stop before EB: Exeter, RI

Shift times: 6:00am - 3:00pm

If interested in signing up or have any route questions, please contact driver

Ron Brenek at 860-376-4165



FOLLOW EB SOCIAL MEDIA CHANNELS

 **Facebook:**
General Dynamics Electric Boat

 **Twitter:**
@GDElectricBoat

 **Instagram:**
gdelectricboat

 **YouTube:**
GD Electric Boat

 **LinkedIn:**
General Dynamics Electric Boat

 **EB Landing:**
www.EBlanding.com

DIRECTORY

When calling from an outside line, remember to dial 268 and the last four digits of the numbers below.

EMERGENCY.....	2-2222
FMO Office.....	2-2446/2-2626
Medical Dispensary.....	2-2244
Safety.....	2-2243
Security.....	2-2410
Benefits/Human Resources.....	2-3554
Employment.....	2-2400
Payroll.....	2-2646
Ethics Hotline.....	800-433-8442

The QP WIB is produced by EB Communications. To submit ideas, contact rmarques@gdeb.com

2022-2023 PROVIDENCE BRUINS
GROUP OUTING

Electric Boat



CHUCK-A-PUCK TICKET PACK

OPTION 1
 (1) TICKET TO GAME
 FEATURING P-BRUINS WINTERFEST & CHUCK-A-PUCK
 Plus (1) FREE PUCK FOR CHARITY CHUCK-A-PUCK
\$24 PER PACK

OPTION 2
 (1) TICKET TO GAME
 FEATURING P-BRUINS WINTERFEST & CHUCK-A-PUCK
 Plus \$10 GAME DAY FOOD VOUCHER
 Plus (1) FREE PUCK FOR CHARITY CHUCK-A-PUCK
\$30 PER PACK

To Purchase Visit:
www.ProvidenceBruins.com/ElectricBoat

PURCHASE INSTRUCTIONS: Once purchased, you will receive an email from Fevo, our group ticketing platform, with instructions to access your tickets. **You will pick up your food voucher at the Group Sales Table at Section 118 on your game day!** For more info, please call/email: Anthony with the Bruins at (401) 680-4713 or Pontrelli@pseagency.com.

2 0 2 2 Disney on Ice



Disney on Ice Group Offer

Available Shows:

- ★ Dec 28, 2022 • 6:00 PM
- ★ Dec 30, 2022 • 12:00 PM
- ★ Dec 29, 2022 • 12:00 PM
- ★ Jan 1, 2023 • 4:00 PM

OFFER DETAILS:

Discounted Tickets starting at \$19

All Employees, Family Members, and Friends must purchase a ticket to attend the event. To sit together as a group make sure to select the same seating section and **enter your group's name at checkout!** Purchase your tickets through the link below!
Discounted ticket price reflects price before fees

PURCHASE ONLINE NOW AT:

fevo.me/doiprov

INSTRUCTIONS: Please go directly to the link listed above to purchase your tickets. Once purchased you will receive an email in regards to how to access your mobile tickets through your mobile device. If you have any questions or concerns please call Anthony Pontrelli at 401-680-4713 or email him at pontrelli@pseagency.com

Deadline to order tickets is December 12th!

Join today with a very special offer.



BJ'S SEMI-ANNUAL ENROLLMENT EVENT NEW and EXISTING MEMBERS WELCOME!
 FRIDAY DECEMBER 2, 2022 FAIRWATER STORE 10 AM - 3:30 PM BRING CARD and PAYMENT!

FORM and MAILING INSTRUCTIONS ARE INCLUDED AS ATTACHMENTS. (Also available in HR, with Supervisors and on intranet).
 Form and payment may be turned in at on-site event or must be emailed or mailed to BJ's Rep by December 31st deadline. (See instructions).

Participate now if membership expires before JUNE 2023.
 With payment, 12 months will be ADDED onto current expiration date of renewing members.

The award is electronically loaded to your membership card and will be available at the register in 24 hours from when the form is processed.
 Award must used within 30 days on an In-Club purchase.

These are ELECTRONICALLY LOADED so you will NOT RECEIVE A COUPON OR GIFT CARD.

Those on auto renewal must remove option by calling 800-257-2582 or unclicking option on your account profile on bjs.com.



BJ's Perks Rewards Membership

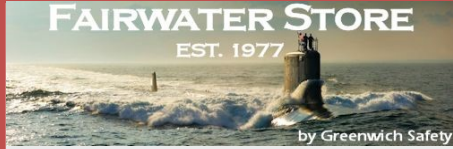
Earn 2% cash back on most BJ's purchases.*



BJ's Inner Circle Membership

New members	Get \$20 in cash awards* to spend at the club when you join for \$75.	Get \$10 in cash awards* to spend at the club when you join for \$25.
Existing members	Get \$20 in cash awards* to spend at the club when you renew for \$110.	Get \$10 in cash awards* to spend at the club when you renew for \$55.

1-year BJ's membership with BJ's Easy Renewal.*



- New USS Nautilus Apparel!
- We Build Freedom classic pullover hoodie back in stock
- **FREE GIFT with \$100 or more purchase - USS Columbia Ornament!**
- 2022 USS Nautilus Ornaments available

Hours of Operation

7:30 am to 4:00 pm

7 am on Wednesdays 11/30



Quonset Point Weekly Safety Briefing
11/27/2022 – 12/03/2022



HOLIDAY STAND DOWN

Monday 11/14/2022
Monday 11/28/2022
Monday 1/2/2023

First/Second/Third Level Leadership Monday Morning Stand Down for all Operations Employees

Call in numbers:

1-833-568-8864

1-646-828-7666

1-551-285-1373

Meeting ID: 160 9370 0037#

GENERAL DYNAMICS
Electric Boat

Policy Statement # 13: Electric Boat Corporation has established Occupational Health and Safety as the Company's Number One Priority.

Week 48

Flu Shots and Bivalent COVID boosters available at Dispensary

MDU (Management Development University)

This program is to establish a participant pool for future consideration for positions as supervisors and/or acting supervisors. The program will provide participants with exposure to program essentials such as time management, stress management, leadership skills and insight into the role/responsibilities of a supervisor. Upon successful completion of the program, participants will possess a better understanding of the role of a supervisor and be better aligned for consideration for permanent placement in a posted Supervisor position. Completion of the program does not guarantee a Supervisory position. The program will last about nine weeks. The program will have four weeks that will consist of 3 hours on **employees own time** and training attendance is required.

APPLICANTS:

- Must want to be a future leader at EB/QP
- For hourly and salaried non-exempt employees: must possess 1 year of experience at Electric Boat.
- Must currently be an EB/QP employee, preferably with core trade experience
- Must possess high school, GED or equivalent preferred
- Received fully satisfactory performance rating for last two reviews
- No discipline for past 12 months
- Must be willing to attend 3 hours for four weeks of unpaid training
- **Attendance at one of the information sessions (on your own time) is required in order to be eligible to apply**

1 st Shift	Fri 11/18/22 3:15-4:15pm B60 Cafeteria	Tue 11/29/22 3:15-4:15pm B60 Cafeteria
2 nd Shift	Thurs 11/17/22 2:15-3:15pm B60 Cafeteria	Tue 11/29/22 2:15-3:15pm B60 Cafeteria
3 rd Shift	Fri 11/18/22 7:40-8:40am B60 Cafeteria	Tue 11/29/22 7:40-8:40am B60 Cafeteria