

## Tall Bald Guy University (TBGU)

### Generator Graduate Requirements

**Prerequisite for TBGU:** Complete and submit TBGU application to Administration.

#### **Freshmen**

Forklift Certification  
Towing Certification  
Basics of Electrical Safety  
Rental Hours Certification  
4 "Pop Ins" by Senior Tech  
Loadbank MOP Review  
Isuzu (online)

-HOT001	-WBT009
-HOT003	-WBT011
-WBT001	-WBT012
-WBT002	-WBT013
-WBT003	-WBT014
-WBT009	-WBT015

Honda (online)  
Engines

-SVC1735	-SVC1767
-SVC1787	-SVC1769
-SVC1764	-SVC1770
-SVC1765	-SVC1783
-SVC1799	-SVC1786
-SVC1731	-SVC1789
-SVC1791	-SVC1788
-SVC1763	-SVC1790
-SVC1802	-SVC1798
-SVC1766	-SVC1801
-SVC1768	

Generators

-WPAVRS A	-WP14TUI
-WPTUIIB	-WP14EU7
-WPEB3SA	-SPGGSO1
-WPEM7SA	-SPGG202
-WPEUISA	-SPGG203
-WPTU909	-WPGG1SA
-WPEU2SA	-WPTU11L

-WPEU3SA	-WPLBISA
-WPTU102	
Industrial Certification	
-SPGGS01	-WPTU11R
-SPGGS02	-SPPXS10
-SPGGS03	-SPPWP07
-WPTU11L	-SVC1784
-WPLBISA	

## Sophomore

Generator Hour Tracking  
 ATS Hours Certification  
 NFPA 110 Certification  
 Maintenance Procedures Certification  
 Generator Genius
 

- Diesel Generator Safety and Inspection
- Diesel Fuel Polishing
- Loadbank Testing
- Generator Deployment Plan

 6 "Pop Ins" by Senior Tech  
 Generac
 

- Protector Series

 Cummins
 

- VTA28 Maintenance and Repair
- NT/NT855 Qualification (2008-09Q)

 Kohler (online)
 

- Decision Maker® Paralleling System
- Communications
- Gas and Diesel Marine Generators
- Industrial Automatic Transfer Switches
- Industrial Switchgear
- Industrial Controls
- Industrial Gas and Diesel Generators
- Industrial Gas and Diesel Engines
- Residential Air-Cooled Generators
- Residential Automatic Transfer Switches
- Residential Liquid-Cooled Generators

## Junior

10 "Pop Ins" by Senior Tech  
 EGSA Certification  
 Week 1 Chapters 1-4

Week 3 Chapters 5-9  
Week 5 Chapters 10-14  
Week 7 Chapters 15-19  
Week 9 Chapters 20-24  
Week 11 Chapters 25-29  
Week 13 Chapters 30-34  
Week 15 Chapters 35-39  
Week 17 Chapters 40-44  
Week 19 Chapters 45-47  
Week 25 Test

## Senior

\*Second Engine Line

John Deere Certification:

### **CORE:**

1. Service Advisor – CSP-UCD002EN (WBT)
2. Electrical Systems I – Module B (CSP-17-TW1QNP04 (WBT))  
\*Must satisfy prerequisite\*
3. Electrical Systems II – Module B (CSP-17-TW1QNP05 (WBT))  
\*Must satisfy prerequisite\*
4. Service Advisor Methods and Techniques (CSP-17-SE1QNP08 (ILT))
5. Electrical Methods and Techniques (CSP-17-SE1QNP08 (ILT))

### **Level 1:**

1. Diesel Engine Systems I (CSP-18-TW1MMF1 (WBT)) **OR**
2. Introduction to Basic Diesel Engines (CSP-18-TW1MA02 (WBT))
3. Diesel Engine Systems II (CSP-18-TW2MMF1 (WBT)) **OR**
4. Introduction to John Deere Diesel Engines (CSP-18-TW1MA03 (WBT))

### **Level 2:**

1. Engine-After Treatment System Overview (CSP-18-TW2MT402 (WBT)) **OR**
2. Engine- After Treatment DOC/DPF Systems Overview (CSP-18-TW2MA101 (WBT))
3. Engine Air and Exhaust Systems Overview (CSP-18-TW2MA101 (WBT))
4. Engine Coolant Systems Overview (CSP-18-TW2MAC01 (WBT))
5. Engine Electrical Systems Overview (CSP-18-TW2MAE01 (WBT))
6. Engine Fuel Systems Overview (CSP-18-TW2MAF01 (WBT))
7. Engine Lubrication Systems Overview (CSP-18-TW2MAL01 (WBT))
8. Integrated Emissions Control System Overview (CSP-18-TW2MT403 (WBT)) **OR**

9. After Treatment SCR Systems Overview (CSP-18-TW2MAI02 (WBT))

**Level 3:**

1. Introduction to Engine Diagnostics (CSP-18-TN3MAE01 (vILT))
2. Base Engine and Electrical Diagnostics Qualification Assessment (CSP-18-TW3MAE01 (WBT))
3. After Treatment System Fundamentals (CSP-18-SC2MIT402 (ILT))  
**OR**
4. Engine After Treatment DOC/DPF Systems Diagnostics (DLC CSP-18-TN3MA101 (vILT))
5. Engine After Treatment DOC/DPF Systems Qualification Assessment (CSP-18-TW3MA101 (WBT))
6. After Treatment SCR Systems Diagnostics 1 (CSP-18-TN3MA102 (vILT)) **OR**
7. Engine – Integrated Emissions Control System Fundamentals and Basic Diagnostics (CSP-18-SE4MT423 (ILT))
8. Engine – Integrated Emission Control System Basic and Advanced Diagnostics Combined (CSP-18-SE4MT433 (ILT)) **OR**
9. Engine – Integrated Emissions Control System Basic Diagnostics (CSP-18-SE3MT403 (ILT)) **OR**
10. Engine After Treatment SCR Systems Diagnostics 2 (CSP-18-TN3MAI03)
11. Engine Air and Exhaust Systems Diagnostics (CSP-18-TN3MAA01 (vILT)) with qualification assessment (CSP-18-TW3MAA01 (WBT))
12. Engine Coolant and Lubrication Systems Diagnostics (CSP-18-TN3MAL01 (vILT)) with qualification assessment (CSP-18-TW3MAL01 (WBT))
13. Engine Fuel Systems Diagnostics 1 (CSP-18-TN3MAF01 (vILT))
14. Engine Fuel Systems Diagnostics 2 (CSP-18-TN3MAF02 (vILT))

**\*Assessments after the SCR Diagnostic Courses are Completed\***

1. Engine After Treatment SCR Systems Qualification Assessment (CSP-18-TW3MAI03 (WBT))
2. Engine Fuel Systems Qualification Assessment (CSP-18-TW3MAF02 (WBT))

**\*Additional Level 3 Option\***

1. Engine After Treatment SCR Systems Diagnostics (CSP-18-TN3MAI04 (vILT))
  - i. Combines content and is equivalent to (numbers 5 and 6 above):
    1. Engine Aftertreatment SCR Systems Diagnostics 1 (CSP-18-TN3MAI02)

2. Engine Aftertreatment SCR Systems Diagnostics 2 (CSP-18-TN3MAI03)
2. Engine Fuel Systems Diagnostics (CSP-18-TN3MAF03 (vILT))
  - i. Combines content and is equivalent to (number 9 and 10 from above):
    1. Engine Fuel Systems Diagnostics 1 (CSP-18-TN3MAF01 (vILT))
    2. Engine Fuel Systems Diagnostics 2 (CSP-18-TN3MAF02 (vILT))

**Level 4:**

1. Engine Diagnostic Capstone with Aftertreatment – CSP-18-SE4MT410 (ILT)

Volvo

1. Diesel Engine Fundamentals
2. Exhaust Gas Aftertreatment Overview
3. Industrial Engines and Control Units
4. Global Competency Industrials
5. Introduction to EATS (Exhaust Gas Aftertreatment)
6. Tier 4 Final Introduction
7. Vodia 5.2 Industrial Quick Guide

**Truck Graduate Requirements**

**Freshmen**

- Forklift Certification
- Towing Certification
- Safety Certification
  - Accident Prevention & Reporting
  - Basics of Safety
  - Electrical Safety
- Delmar Truck Discs
  1. Diesel Engines
  2. Drive Trains
  3. Electricity and Electronics
  4. Suspension and Steering
  5. Preventative Maintenance

**Sophomore**

- Isuzu (online) –
  - HOT001
  - HOT003
  - WBT001

WBT002  
WBT003  
WBT009  
WBT011  
WBT012  
WBT013  
WBT014  
WBT015

**Junior** - choice of 1, further approval is needed by Lisa Carter

Cummins

ISX CM871 Engine Qualification (2006-30Q)  
ISB4.5 & ISB6.7 CM2150 SN (EURO 5) Qualification (2009-15Q)  
ISB4.5 & ISB6.7 CM2350 Qualification (Euro 6) (2013-06Q/2013-08Q)  
ISL8.9 CM2150 SN (EURO 5) Qualification (2009-16Q)  
International Class - as they become available

**Senior**

GENERAL REPAIRS AND PREVENTATIVE MAINTENANCE

- Volvo Preventive Maintenance
  - Lubrication Training 1 - Fundamentals of Lubrication
  - Lubrication Training 2 - Heavy-Duty Diesel Engine Lubrication
  - Lubrication Training 3 - Heavy-Duty Truck Gear Lubrication
  - Lubrication Training 4 - Heavy-Duty Truck Grease Lubrication
  - Lubrication Training 5 - Heavy-Duty Coolants / Anti-Freeze

SYSTEMS, OPERATIONS, BASIC DIAGNOSTICS AND REPAIR

- Volvo Operating 2007 and Newer Vehicles
  - Introduction to Electrical Systems
  - Introduction to Volvo Electronics
  - Volvo Air Brake Fundamentals
  - Volvo Basic Heavy-Duty Truck HVAC Principles
  - Diesel Engine Basics
  - Impact for Fleets
  - Heavy-Duty Truck Transmission Basics

SERVICE DIAGNOSTIC SYSTEMS AND MAJOR REPAIR

- Volvo Premium Tech Tool 2.0
  - Volvo Trucks HD-OBD Basics
  - Volvo SCR Familiarization
  - Bendix ABS 6 Advanced with ESP Stability System
  - Volvo V20 Engine Measuring Tools
  - Catalyzed DPF
  - Volvo Exhaust Aftertreatment System (EATS) Overview
  - 2013 Communication Network Update for Volvo Trucks

## ADVANCED LEVEL DIAGNOSTICS

- Failure Analysis
- Volvo Link Classic
- Volvo Automated Transmission for Fleets
- Volvo I-Shift - How to Remove Control and Range Housing
- Volvo Air in Fuel System, Check
- Volvo Engine Injector and Sleeve, Replacement (Conical)

## **Administrative Graduate Requirement**

### **Freshmen**

- Front Office
- Parts
- Service
- Customers
- Rental
- Watch "The Prophet" ( 2 Episodes )  
Write a 400 word reflection
- Generator Genius
  - Introduction to Generator Genius Video Series
  - Back Up Your Power

### **Sophomore**

- Bidding 101
- ARA Modules
  - Customer Service 101
  - Customer Service 102
  - Communication Skills 101
  - Communication Skills 102
- Generator Genius
  - Diesel Generator Maintenance Check
  - Portable Generator Maintenance
  - Generator Compliance
- Watch "The Prophet" ( 2 Episodes )

### **Junior**

- Generator Genius
  - Generator Contingency Planning
  - Generator Maintenance Plan
- Champions

- Coaching
- Communication
- Cross-Selling
- Email Management
- Procrastination
- Time Management
- Watch "The Prophet" ( 2 Episodes )
- "Change is Good... You go First"

Write 500 words total in two different paragraphs. . First paragraph will be a summary of what you took away from the book and the second will be on how to implement new strategies into your work.

## Senior

- Watch "The Prophet" ( 2 Episodes )

Write a 400 word reflection

- Read (all 3 books)

"Eat that Frog"

"Leadership Secrets of Santa"

"The \$6000 Egg"

Read all 3 books then choose two of the books and write 500 words total in two different paragraphs on each book chosen. First paragraph will be a summary of what you took away from the book and the second will be on how to implement new strategies into your work.

- Senior Paper

Submit a 1500 word paper on "6 Sigma" for one area of the business.

## Fire Truck Mechanic

Freshmen

Sophomore

Fire Mechanic 1

Junior

Fire Mechanic 2

Senior

Fire Mechanic 3