STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY CANTON, NEW YORK



MASTER SYLLABUS

COURSE NUMBER – COURSE NAME AUTO 253 – SUBARU UNIVERSITY TRAINING

Created by: Brandon Baldwin

Updated by: Brandon Baldwin

Canino School of Engineering Technology

Department: AUTOMOTIVE TECHNOLOGY

Semester/Year: SPRING 2020

A.	TITLE: Subaru University Training	
В.	COURSE NUMBER: AUTO 253	
C.	CREDIT HOURS: 1 credit hour(s) per week for 15 weeks	
	One hour (50 minutes) of lecture per week Two to three hours of lab or clinical per week Two hours of recitation per week 40 hours of internship	
D.	WRITING INTENSIVE COURSE: Yes \(\subseteq \text{No } \subseteq \)	
Е.	GER CATEGORY: None: Yes: GER If course satisfies more than one: GER	
F.	SEMESTER(S) OFFERED: Fall ☐ Spring ☐ Fall & Spring ☐]
G.	COURSE DESCRIPTION:	
an inter Subaru SUNY Subaru	ents who earned their way into Subaru-U by earning a grade of B or high erest in employment at a Subaru dealership upon graduation, take on-line to begin with. Subaru-U training Level 1 is non-manufacturer specific Canton Automotive training at the 100 level. Subaru-U training Level yet still reinforces SUNY Canton Automotive training at the 200 level erequisites to Level 3 face-to-face training at Subaru training centers.	ne courses from ic and reinforces el 2 is specific to
Н.	PRE-REQUISITES: None Yes If yes, list below:	
AUTO	0 101, 111, 112, 122	
	CO-REQUISITES: None Yes If yes, list below:	

I. <u>STUDENT LEARNING OUTCOMES</u>: (see key below)

By the end of this course, the student will be able to:

Course Student Learning Outcome [SLO]	Program Student Learning Outcome [PSLO]	GER [If Applicable]	ISLO & SUBSETS		
Apply scan tool and electrical knowledge to diagnose body, engine, and transmission electronic system circuits	ALO1, ALO3		2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets	
Apply electronics knowledge to check for module communication errors, program modules, and hybrid functions.	ALO1, ALO3		2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets	
Distinguish between frequency levels to determine source of noise, vibration, or harshness.	ALO1, ALO3		2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets	
Interpret scan tool data to reduce electrical, and electronic diagnosis time.	ALO1, ALO2		2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets	
Interpret oscilloscope wave forms to interpret electrical, electronic, and module communication networks.	ALO1, ALO3		2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets	
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J.	APPLIED LEARNING COMPONENT:	Yes 🖂	No 🔲
	If YES, select one or more of the following cates	gories:	
	 ☐ Classroom/Lab ☐ Internship ☐ Clinical Placement ☐ Practicum ☐ Service Learning ☐ Community Service 	Research Entrepreneu	orks/Senior Project
К.	<u>TEXTS</u> :		
none			
L.	REFERENCES:		
Subar	u-U.com		
M. autom	EQUIPMENT: None Needed: technology notive lab	enhanced class	room, or laptops in the
N.	GRADING METHOD: A-F		
0.	SUGGESTED MEASUREMENT CRITERIA	<u>/METHODS</u> :	
•	Exams given at the end of each unit by Subar Participation	u	
P.	<u>DETAILED COURSE OUTLINE</u> :		
I. A. B. C. D. E. F. G. H. II. A. B. C. D. E.	Level 1 Training Introduction to SSM3 (Subaru Service Monit Subaru Technical Information System Repair Order Write-Up Basic Electrical I & II Bluetooth & BlueConnect Remote Engine Start Generic Hybrid Overview NVH (Noise, Vibration, & Harshness Overvie Level II Training Automatic Transmission Learning Procedure Basic Fuel Injection Part 1 Basic Fuel Injection Part 2 Diagnosis & Documentation of the DTC P042 DST-I Oscilloscope	ew)	
F. G.	Electronic Throttle Control: Overview Engine Service Tips		

KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem Solving [PS]
3	Foundational Skills Information Management [IM], Quantitative Lit,/Reasoning [QTR]
4	Social Responsibility Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]
5	Industry, Professional, Discipline Specific Knowledge and Skills

^{*}Include program objectives if applicable. Please consult with Program Coordinator

- H.
- I.
- J.
- EyeSight Overview
 GR8 Battery Diagnostic Station
 Occupant Detection System (ODS)
 Troubleshooting using Inputs and Outputs of Control Modules K.
- LABORATORY OUTLINE: None X Yes Q.