



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Internal Combustion Engine			
Course Prefix & No.: HATN106N	Lecture Hours: 2	Lab Hours: 3	Credit Hours: 3
Department: Industry and Transportation			
Program: Honda Automotive Technology			
Revision Date: 12/2021			

Prerequisites/ Co-requisites:

Admission into the Honda Automotive Technology Program

Required Accuplacer Score:

Student must place in college level math and english

Entrance Skills:

- Accuplacer or SAT score placement into college level math
- Accuplacer or SAT score placement into college level english
- Safe automobile driving habits
- An understanding of basic tool usage is helpful but not required
- Students should have an interest in automobile and a desire to be employed at a Honda dealership
- Clean and valid drivers license – requires program coordinator approval

Catalog Description:

This course examines 2 and 4 stroke engines, their operating systems, and related physical properties. Principals from basic carburation to variable cam timing, forced induction and performance parts are covered. The lab element of this course exposes the students to the construction methods, precision measurements, and tolerances related to engine design. It also covers basic diagnostics of a 4 stroke engine..

Course Competencies:

Competency (Knowledge and Skills)	Critical Thinking Level	Linked to Program Outcome(s) #
Students will be able to:		
1. Identify design and manufacturing techniques of automotive engines	Identify	
2. Understand the physical properties of energy conversion	Identify	
3. Explain the combustion principles of 2 and 4 stroke engines, gasoline and diesel	Identify	
4. Identify the operating systems of gasoline and diesel engines	Identify and relate	
5. Identify the internal components of an internal combustion engine	Identify	
6. Develop a sense of precision fit of engine components	Analyze and compare	
7. Use precision measurement tools to measure the internal components of an internal combustion engine	Apply and analyze	
8. Diagnose no-start condition of single cylinder engines	Analyze	

Course Outline:

Content Topic	Subtopics (a., b., etc.)
Introduction	
Introduction	<ul style="list-style-type: none">a. Safetyb. Hardwarec. Torque wrench
Internal combustion engine	<ul style="list-style-type: none">a. Operationb. Constructionc. Classificationsd. Size and measurements
Top end	<ul style="list-style-type: none">a. Cylinder heads and componentsb. Valve trainc. Cam timingd. Variable cam timinge. To include performance timing
Bottom end	<ul style="list-style-type: none">a. Blockb. Crankc. Connection rodsd. Piston and ringse. To include performance parts
Intake and exhaust systems	<ul style="list-style-type: none">a. Manifold designsb. Air flow requirementsc. To include performance modifications
Forced induction	<ul style="list-style-type: none">a. Turbochargersb. Blowers/superchargesc. Nitrousd. To include OEM and Aftermarket

Fuel fundamental	<ul style="list-style-type: none"> a. Petroleum and alternative fuels b. Basic fuel systems
Ignitions systems	<ul style="list-style-type: none"> a. Introduction to ignition systems

Performance Evaluation:

<p>Formative Assessments</p> <ul style="list-style-type: none"> 1. Lab participation grade 2. Classroom participation 3. Quizzes 4. Midterm exam 5. Homework assignments, reading 	<p>Summative Assessments</p> <ul style="list-style-type: none"> 1. Final exam 2. Lab practical exam 3. Completed Honda modules
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<p>Method of Instruction:</p> <ul style="list-style-type: none"> 1. Lecture and discussion 2. Required reading 3. Demonstration 4. Laboratory work

Instructional Facilities:

Instructional facilities required for this course include:

1. A traditional classroom with working audio/visual equipment.
2. Lab space including work benches 1 per every 2 students
3. Single cylinder engines, 1 per every 2 students

Revision History:

November 2018 – Jason Felton

December 2021 – Jason Felton

Will this course be taught online? Yes___No__X_

If yes, please complete the Online Course Outline Form.



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Honda Electricity and Wiring			
Course Prefix & No. HATN 113N	Lecture Hours: 2	Lab Hours: 3	Credit Hours: 3
Department: Industry and Transportation			
Program: Honda Automotive			
Revision Date: 12/2021			

Prerequisites/ Co-requisites:

Acceptance into the Honda Automotive Program.

Required Accuplacer Score:

Student must place into college level math and english

Entrance Skills:

- Accuplacer or SAT score placement into college level math
- Accuplacer or SAT score placement into college level english
- Safe automobile driving habits
- An understanding of basic tool usage is helpful but not required
- Students should have an interest in automobile and a desire to be employed at a Honda dealership
- Clean and valid drivers license – requires program coordinator approval

Catalog Description:

This course is designed to introduce students to how electricity works and is utilized in today's automobiles. Topics for this course will include electrical theory, Ohm's law, watt's law, voltage, current and resistance, tool identification/usage, proper multi meter usage and starting and charging systems. There will also be discussion about how to properly diagnose electrical issues and how to read wiring schematics provided by Honda. This course is designed to meet requirements for ASE Education Foundation certification as well as the Electrical Fundamentals section of the Honda Curriculum.

Course Competencies:

Competency (Knowledge and Skills)	Critical Thinking Skills	Linked to Program Outcome(s) #
Students will be able to:		
1. Understand basic electrical theory and safety and how electricity works in an electrical circuit	Comprehension	
2. Understand The relationship of Ohm's law to how electricity works and use Ohm's law as a diagnostic tool to recognize good or faulty circuit operation	Comprehension and application	
3. Understand how voltage drop works and use voltage drop to diagnose and recognize defective circuit operation.	Comprehension, application and analysis	
4. Understand how to properly read and use an automotive multi meter to diagnose defective electrical circuits in automotive applications	Comprehension, application and analysis	
5. Understand how to read Honda electrical schematics to aid in diagnosing defective circuits.	Comprehension, application and analysis	
6. Understand and demonstrate proper electrical diagnostic skills and employ effective repair procedures	Comprehension and application	
7. Describe battery design, function and testing in order to demonstrate effective battery diagnosis and repair..	Comprehension, application and analysis	
8. Demonstrate knowledge of the design and function of starting and charging systems	Comprehension, application and analysis	

Course Outline:

Content Topic	Subtopics (a., b., etc.)
a) Introduction and Shop safety	a) Battery safety b) Electrical safety c) Tool Id and usage
b) Electrical Fundamentals	a) What is electricity b) Conventional Theory, Electron Theory c) Ohm's law, Watt's Law d) Conductors, insulators, and semi-conductors
c) Wire and Harness Repair	a) Soldering b) Crimping c) Splicing d) Basic electrical tools
d) Digital Multi-meters	a) Measuring resistance, voltage and current b) Continuity testing c) Voltage drop testing
e) Series Circuits, Parallel circuits, and Series Parallel Circuits	a) Identifying circuit types b) Applying Ohm's Law to circuits c) Understanding Kirchhoff's laws regarding voltage, current and resistance in all circuit types
f) Reading and Understanding Wiring Diagrams	a) Using online service info systems to access wiring schematics (ISIS) b) Using and understanding printed schematics
g) Battery Testing and Service	a) Battery testing, load testing b) Impedance testers c) Battery and terminal service
h) Starting system design and diagnosis	a) starter design and operation b) starting system design c) diagnostic and repair procedures

i) Charging system design and diagnosis	a) alternator design and operation b) charging system design c) diagnostic and repair procedures
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Performance Evaluation:

Formative Assessments	Summative Assessments
a) lab participation grade b) classroom participation c) quizzes d) midterm exam e) homework assignments	a) final exam b) lab practical exam c) completed Honda modules -Self-study Modules - Skill modules d) Lab task sheets

Method of Instruction:

The methods of instruction that will be used in this course include but are not limited to:

- a) lecture
- b) required reading
- c) lab instruction
- d) written assignments
- e) watching assigned and in class videos
- f) Canvas usage
- g) Honda Interactive Network

Instructional Facilities:

For this course a traditional classroom with working audio/visual equipment is required as well as working lab space in the automotive lab. Access to both a lab classroom with benches and main shop space with lifts is required for this class.

Revision History:

Last recorded revision 9/10/2007 Al DeRosa
 Latest Revision 2/20/2013 Al DeRosa
 Latest Revision 3/7/2014
 Latest Revision 12-2018 Jason Felton

December 2021 Jason Felton

Will this course be taught online? Yes ___ No X

If yes, please complete the Online Course Outline Form.



NASHUA COMMUNITY COLLEGE
COURSE OUTLINE FORM

Course Title: Honda Suspension and Steering			
Course Prefix & No.: HATN 114N	Lecture Hours: 2	Lab Hours: 4	Credit Hours: 4
Department: Industry and Transportation			
Program: Honda Automotive Technology			
Revision Date: 12/2021			

Prerequisites/ Co-requisites: HATN 121N

This course will utilize and build upon topics discussed in HATN 121N.

Required Accuplacer Score: N/A

Entrance Skills:

These skills include reading, writing, computational skills as well as computer skills. In addition to these skills the following automotive skills will be required as well; Proper lifting techniques, proper tool identification and usage, proper measuring tool usage, ability to follow repair instructions both written and verbal, ability to use supplied resources for gathering information and the proper methods for disposal of automotive fluids and components.

Catalog Description:

Honda automotive suspension, steering systems and wheel alignment procedures will be studied. This course will include the development of knowledge towards understanding the forces that affect vehicle control, suspension system design, wheel alignment angles and vehicle stability systems. Students will be trained in four wheel alignment procedures, suspension system repairs and steering system diagnosis and repair and proper restraint system safety and procedures. A grade of C or Better is required for progression

Course Competencies:

Competency (Knowledge and Skills)	Critical Thinking Level	Linked to Program Outcome(s) #
1. Identify different suspension designs, function and inspection procedures	Describe, Apply, and Analyze	
2. Describe operation of different steering components	Describe, Discuss, Memorize	
3. Describe and Perform power steering pressure testing	Demonstrate and Apply	
4. Discuss the causes of wheel vibration and procedures for repair using Roadforce and Force Matching	Describe, Identify and Apply	
5. Identifying electronic suspension components and operation	Describe, Identify	
6. Perform Four wheel alignments, Interpret alignment angles, Identify points and correcting the angles	Demonstrate, Interpret, Analyze, Employ	
7. Describe operation, proper disable procedures, diagnosis and repair of the safety restraint systems	Describe, Identify and Apply	

Course Outline: The course outline will provide a general overview of the content that will be included in the course as they relate to the competencies. The first column lists the general content and the second column will allow for subtopics that will be covered.

Content Topic	Subtopics (a., b., etc.)
Introduction and shop safety	<ul style="list-style-type: none"> a) Lift point b) Shop procedures
Basic suspension components	<ul style="list-style-type: none"> a) Design, function and inspection b) Vehicle inspection
Suspension system service	<ul style="list-style-type: none"> a) Inspection of steering components b) Replacement of tie rods c) Replacement of steering gear
Power assist design and diagnosis	<ul style="list-style-type: none"> a) Perform power steering pressure testing b) Bleeding hydraulic systems
Wheel and tire service	<ul style="list-style-type: none"> Dismount and mount tires Perform basic balancing Perform Roadforce and Force Matching Diagnose vibrations and other wheel and tire related concerns
Electronic suspension service	<ul style="list-style-type: none"> Identifying electronic suspension system Precautions to servicing the different types of system
Four wheel alignment	<ul style="list-style-type: none"> Setup procedure of the alignment machine Interpretation of the alignment angles Identifying adjustment point and correcting the angle
Restraint Systems	<ul style="list-style-type: none"> Basic restraint system safety Correct procedures for restraint disabling Special test procedures for restraint systems

Performance Evaluation:

Formative Assessments	Summative Assessments
a. Lab participation b. Classroom participation c. Quizzes d. Midterm exam e. Homework f. Final Exam	a) Final exam b) Lab practical exam c) Completed Honda modules

Method of Instruction:

The methods of instruction that will be used in this course include but are not limited to:

- a) lecture
- b) required reading
- c) lab instruction
- d) written assignments
- e) watching assigned and in class videos
- f) Canvas usage
- g) Honda Interactive Network

Instructional Facilities:

This class requires a traditional classroom with audio/visual equipment as well as shop/lab facilities with several lifts, alignment machine.

Revision History:

4/24/2013 Tim Hogan

11/20/2014 Al DeRosa

12-2018 Jason Felton

12/2021 Jason Felton

Will this course be taught online? Yes ___ No X

If yes, please complete the Online Course Outline Form



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Honda Automotive Service and Maintenance			
Course Prefix & No. HATN 121N	Lecture Hours: 2	Lab Hours: 4	Credit Hours: 4
Department: Industry and Transportation			
Program: Honda Automotive Technology			
Revision Date: 12/2021			

Prerequisites/ Co-requisites:

Admission into the Honda Automotive Program.

Required Accuplacer Score:

Student must place into college level math and english

Entrance Skills:

- Accuplacer or SAT score placement into college level math
- Accuplacer or SAT score placement into college level english
- Safe automobile driving habits
- An understanding of basic tool usage is helpful but not required
- Students should have an interest in automobile and a desire to be employed at a Honda dealership
- Clean and valid drivers license – requires program coordinator approval

Catalog Description:

This course is designed to introduce students to basic Honda automotive dealership repair. The course is centered around the topics outlined in both the ASE Education Foundation Maintenance and Light Repair topics (MLR) and the proper procedure for executing the Honda Express Tech Service/ Acura Accelerated Service. The students will receive instruction in proper shop safety, proper tool identification and application, vehicle lifting, basic undercar diagnosis, and methods of research for proper vehicle repairs. The skills learned in this course will be directly applied once a student has secured a required internship at a certified Honda/Acura dealership. A grade of “C” or better is required for progression.

Course Competencies:

Competency (Knowledge and Skills)	Critical Thinking Skills	Linked to Program Outcome(s) #
Students will be able to:		
1. Identify and gather basic information about assigned vehicles using learned gathering methods for general automotive repairs in order to perform appropriate level repairs on assigned vehicles.	Knowledge, comprehension, application and analysis	
2. Demonstrate safe work habits for students and others working at a Honda automotive repair facility.	Comprehension and application	
3. Identify automotive tools and understand when a tool is appropriate for a designated repair and which tools are not appropriate	Knowledge, comprehension, application and analysis	
4. Students will be able to execute the Honda Express Tech/ Acura Accelerated Service choreography as outlined by Honda/Acura to identify potential areas of concern and properly document these issues.	Comprehension, application and analysis	
5. Perform basic maintenance and light repairs to current vehicles using proper diagnostic procedures as well as proper repair procedures	Comprehension, application and analysis	

Course Outline: The course outline will provide a general overview of the content that will be included in the course as they relate to the competencies. The first column lists the general content and the second column will allow for subtopics that will be covered.

Content Topic	Subtopics (a., b., etc.)
Shop Safety and etiquette	<ul style="list-style-type: none"> · General shop safety · Proper lifting procedures · Proper shop attire · Tool Id, usage and safety
Information Gathering/Documentation	<ul style="list-style-type: none"> · VIN decoding · On vehicle information · Use of Honda Interactive Network, Mitchell on Demand, and AllData · Proper Repair documentation · Fluid types and specifications
General Automotive Maintenance and Light Repair	<ul style="list-style-type: none"> · Fluid/filter changes · Coolant system service · Component removal and replacement · Thread repairs
Undercar Inspection/ Honda Express Tech	<ul style="list-style-type: none"> · Basic vehicle inspection procedures · Basic maintenance and light repair procedures · Honda Express tech choreography

Performance Evaluation:

Formative Assessments	Summative Assessments
a) lab participation grade b) classroom participation c) quizzes d) midterm exam e) homework assignments	a) final exam b) lab practical exam c) completed Honda modules -Self Study Modules -Skill Modules

Method of Instruction:

The methods of instruction that will be used in this course include but are not limited to:

- a) lecture
- b) required reading
- c) lab instruction
- d) written assignments
- e) watching assigned and in class videos
- f) Canvas usage
- g) Honda Interactive Network

Instructional Facilities:

For this course a traditional classroom with working audio/visual equipment is required as well as working lab space in the automotive lab. Access to both a lab classroom with benches and main shop space with lifts is required for this class.

Revision History:

March 6, 2014, Al DeRosa
December 2018 Jason Felton
December 2021 – Jason Felton

Will this course be taught online? Yes___No__X_

If yes, please complete the Online Course Outline Form.



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Honda Automotive Brakes and Stability			
Course Prefix & No.: HATN 122N	Lecture Hours: 2	Lab Hours: 4	Credit Hours: 4
Department: Industry and Transportation			
Program: Honda Automotive Technology			
Revision Date: 12/2021			

Prerequisites/ Co-requisites:

HATN 113N, HATN 121N These prerequisite courses will introduce to or reinforce topics and skills that will be required for successful completion of this course.

Required Accuplacer Score: N/A

Entrance Skills:

These skills include reading, writing and computational skills as well as computer skills. In addition to these skills the following automotive skills will be required as well; Proper lifting techniques. Proper tool identification and usage, proper measuring tool usage, ability to follow repair instructions both written and verbal, ability to use supplied resources for gathering information and the proper methods for disposal of automotive fluids and components. The ability to access the Honda Interactive Network to complete required modules for Honda PACT certification.

Catalog Description: The study of manual, power, disc, and drum braking systems with an emphasis on the diagnosis and repair procedures of master cylinders, wheel cylinders, calipers, brake pad and shoe assemblies and the machining of drums and disc brake rotors. The study of brake subsystems such as parking brakes and anti-lock brakes will be included. Honda specific task objectives shall be covered in detail through the use of Honda training modules as required by the PACT core curriculum. A grade of C or better is required for progression

Course Competencies:

Competency (Knowledge and Skills)	Critical Thinking Level	Linked to Program Outcome(s) #
Students will be able to:		
1. Understand safety and environmental issues regarding braking and associated systems	Knowledge	
2. Demonstrate a knowledge of brake mechanical components, operation, diagnosis and through repair procedures	List, Describe and Apply	
3. Demonstrate brake measuring and machining equipment skills	Operate and Illustrate	
4. Demonstrate a knowledge of brake system hydraulic components, operation and diagnosis and through repair procedures	List, Describe, and Apply	
5. Demonstrate a knowledge of Anti-lock brake system components, operation, diagnosis and repair	List, Describe, and Apply	

Course Outline:

Introduction	<ul style="list-style-type: none">a. Toolsb. Safety
Brake system fundamentals	<ul style="list-style-type: none">a. Brake system overviewb. Brake legal and health issuesc. Principals of brake operation
Brake hydraulic system	<ul style="list-style-type: none">a. Brake fluid and linesb. Pedal assemblies and master cylinderc. Hydraulic valves and switchesd. Wheel cylinder and caliper hydraulics
Drum and disc brake friction assemblies	<ul style="list-style-type: none">a. Drum brakesb. Disc brakesc. Brake drumsd. Brake rotors
Brake subsystems	<ul style="list-style-type: none">a. Parking/emergency brakesb. Power brake systemsc. Anti-lock brake systemsd. Brake systems and vehicle suspension

Performance Evaluation:

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> a. Lab participation b. Classroom participation c. Quizzes d. Midterm exam e. Homework f. Final exam 	<ul style="list-style-type: none"> a) final exam b) lab practical exam c) completed Honda modules

Method of Instruction
<p>The methods of instruction that will be used in this course include but are not limited to:</p> <ul style="list-style-type: none"> a) lecture b) required reading c) lab instruction d) written assignments e) watching assigned and in class videos f) Canvas usage g) Honda Interactive Network

Instructional Facilities:
<p>This class requires a traditional classroom with audio/visual equipment as well as shop/lab facilities with several lifts, brake test equipment, brake machining equipment and work benches</p>

Revision History:
<p>Last recorded revision 4/17/2010 Peter Berger Latest revision 4/01/2013 Peter Berger Latest Revision 9/25/14 Al DeRosa Latest Revision 12-2018 Jason Felton December 2021 Jason Felton</p>

Will this course be taught online? Yes ___ No **X**___

If yes, please complete the Online Course Out



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Honda Engine Performance I			
Course Prefix & No.: HATN185N	Lecture Hours: 2	Lab Hours: 4	Credit Hours: 4
Department: Industry and Transportation			
Program: Automotive Technology			
Revision Date: 12/2021			

Prerequisites/ Co-requisites:

Prerequisites: HATN113N, HATN121N,

These prerequisite courses will introduce and reinforce topics, skills, and theory that will be required for successful completion of the subject area.

Required Accuplacer Score:

Entrance Skills:

- Basic skills in written English are required.
- Basic reading skills are required.
- Basic computer skills are required.
- Basic understanding of automotive electricity is required.
- Basic understanding of tools and procedures used to perform automotive repair is required.
- Students are expected to possess a good work ethic and a strong desire to learn.

Catalog Description:

The basic theory of engine performance and its effect on emissions will be discussed in depth. The operation and interactions of the ignition, fuel, valve timing, throttle and modulated displacement systems and their individual effects on emissions, performance and fuel economy will be explored. Included in the study will be sensor operations, diagnosis and testing required to service and repair engine malfunctions related to the ignition, fuel systems. All relevant computer controlled system operation will be discussed in this course with emphasis given to Honda preferred diagnostic procedures. In addition, students will be reintroduced to scan tool diagnostics, as well as advanced diagnostic procedures utilized by Honda.

All required Honda modules (both self study and skill) will be included as course work for this course.

Course Competencies:

Competency (Knowledge and Skills)	Critical Thinking Level	Linked to Program Outcome(s) #
Students will be able to:		
1. To develop a working knowledge of ignition and ignition related computer systems.	Knowledge	
2. To develop a working knowledge of basic fuel delivery systems.	Knowledge	
3. To develop the ability to systematically troubleshoot and repair Honda computerized ignition systems.	Application	
4. To develop the ability to systematically troubleshoot and repair Honda fuel delivery systems.	Application	
5. To apply safe working habits and respect for equipment, shop management, and personnel.	Application	

Course Outline:

Content Topic	Subtopics (a., b., etc.)
Introduction	<ul style="list-style-type: none">a. Environmental Considerationsb. Safety
Fuel System components and operation	<ul style="list-style-type: none">a. Fuel delivery, pumpsb. Fuel pressurec. Fuel system serviced. Fuel system diagnosis
Ignition system components and operation	<ul style="list-style-type: none">a. Coil design and operationb. Firing orderc. Distributor ignitiond. Distributor less ignitione. Ignition system servicef. Ignition system diagnosis
On Board Diagnostic II (OBDII)	<ul style="list-style-type: none">a. Objectivesb. P-codesc. Monitorsd. Enabling Criteriae. Fuel Trim
PGM-FI	<ul style="list-style-type: none">a. PGM-FI system introductionb. PGM-FI system componentsc. PGM-FI system operationd. PGM-FI system testing

Performance Evaluation:

Formative Assessments	Summative Assessments
<ol style="list-style-type: none">1. Lab participation grade2. Classroom participation3. Quizzes4. Midterm exam5. Homework assignments, reading	<ol style="list-style-type: none">1. Final exam2. Lab practical exam3. completed Honda modules<ul style="list-style-type: none">-Self Study Modules-Skill Modules

Method of Instruction:

1. Lecture and discussion
2. Required reading
3. Demonstration
4. Laboratory work

Instructional Facilities:

Instructional facilities required for this course include:

1. A traditional classroom with working audio/visual equipment.
2. Lab space including tools and equipment commonly found in an automotive facility dealing with Honda repairs.

Revision History:

September, 2006 Roland Gies
September, 2007 Roland Gies
September, 2009 Roland Gies
September, 2012 Roland Gies
April, 2013 Roland Gies
April, 2014 Al DeRosa
12-2018 Jason Felton
December 2021 – Jason Felton

Will this course be taught online? Yes ___ No X



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Honda Internship II			
Course Prefix & No. : HATN 195N	Lecture Hours: 0	Lab Hours: 18	Credit Hours: 3
Department: Transportation			
Program: Honda PACT			
Revision Date: 12/2021			

Prerequisites/ Co-requisites: HATN121, HATN113, 2.0 GPA

Required Accuplacer Score: N/A

Entrance Skills: To be eligible for Honda Internship the student must have successfully completed HATN 121N with Honda Express Service/Acura Accelerated Service HATN 113N. The student will need to acquire an internship position within a Honda or Acura dealership. In addition to completing the required courses, the student must obtain and maintain a 2.0 CGPA for internship eligibility. Good writing skills will be essential as students will be required to complete a journal to document their internship experience.

Catalog Description: The Honda Internship course is designed to be a supplement to the Honda PACT program learning experience. Students will be required to complete a total of 300 hours of in dealership work experience during the semester per. The internship experience is a paid internship that must take place at a Honda or Acura dealership. Students will be responsible for completing a journal that will document their hours worked, assigned workload, and overall dealership experience. This course will be designated as a Pass/Fail course. Periodic internship visits will be performed by the assigned instructor to monitor student progress.

Course Competencies:

Competency (Knowledge and Skills)	Critical Thinking Level	Linked to Program Outcome(s) #
1. Successfully execute the roles of an express Service Technician (Honda) or Wet Tech or Dry Tech for Acura Accelerated Service	Employ, Operate, Repeat	
2. Student will work with a mentor and successfully complete assigned work by dealership personnel	Operate,	
3. Students will be able to utilize PACT training to complete automotive repair assignments successfully	Repeat, Employ	
4. Students will be able to work with other in an automotive dealership environment	Relate	

Course Outline: See Attached Evaluation Document.

Content Topic	Subtopics (a., b., etc.)
Work Experience Information and Feedback Form	

Performance Evaluation:

Formative Assessments	Summative Assessments
1) In Semester Journal Entries Evaluations 2) Internship visits	1) End of semester interview with direct supervisor 2) Documentation of hours worked 3) Journal completion per semester

Method of Instruction:

Live working internship experience

Instructional Facilities:

Honda or Acura Dealership

Revision History: Al DeRosa 1/2017

December 2021 Jason Felton

Will this course be taught online? Yes ___ No X

If yes, please complete the Online Course Outline Form.

Work Experience Information and Feedback Form

Part 1—General information

Student Name _____ DPTS # _____

Dealership Name _____ Dealer # _____

Service Manager Name _____ Phone # _____

Your PACT student will soon be completing the ____ ____ term and reporting to work.

The student has the following schedule for class attendance:

End of term date: _____ Start of term date: _____

Please meet with your student during the first week of work to review this form and discuss the expectations that you have for this period. Include any incentives that may be reward for meeting those expectations.

This form will help you select work assignment for your PACT student and provide you an opportunity to evaluate the student's performance.

There are four parts to this work experience:

General information—This part explains the form and asks for identification data and general information

Skill Appraisal— This part lists the subjects and tasks that the student has covered in the last term. To reinforce the student's learning, we ask that no less than 30 percent to 50 percent of all tasks assigned be related to these areas.

Performance Appraisal—This part provides you with an opportunity to evaluate the student's work habits.

Sign-off Verification—This part asks for the signature of those involved with the evaluation of the PACT student's performance, including the student, service manager and any other interested dealership persons.

Part 2—Skill Appraisal

Skill Area

This tells you what skill area or course work the student has completed this term.

Tasks

This tells you what tasks the student is prepared to perform after this term's studies.

Log

Complete this at the end of the work experience term. Indicate yes if the student has recorded completing this task.

Evaluation

Complete this at the end of the work experience term. Rate the student's performance based upon dealership/industry performance standards. For each task listed, indicate the level of achievement.

1= Student demonstrates understanding but cannot apply the knowledge without supervision

2= Student performs this task satisfactorily with minimal supervision

3= Student performs this task without supervision

Skill Area	<i>Description of Related Tasks</i>	Logged (Y or N)	1 to 3 Scale Evaluations

What other types of tasks did the PACT student perform satisfactorily? (Use another piece of paper if necessary.)

Part 3—Work Habit Traits

Evaluation

Complete this at the end of the work term. Rate the student's performance based upon dealership/industry performance standards. For each trait, indicate the level of evaluation.

- 1= Student performs below expectations
- 2= Student performs satisfactorily with periodic supervision
- 3= Student demonstrates outstanding performance

Work Habit or Trait	Description	1 to 3 Scale Evaluations
Job knowledge	Overall knowledge or understanding of all aspects pertinent to the job (Materials equipment, techniques, product knowledge, etc).	
Quality of work	Accuracy, thoroughness, and neatness	
Quantity of work	Number of tasks performed during work period meets expectations	
Dependability	Punctuality and attendance, reliability in carrying out work assignments, amount of supervision required and conscientiousness.	
Behavior	Enthusiasm for job, level of cooperation with associates, supervision, etc. Receptivity to changes and new duties. Resourcefulness and versatility.	
Safety	Uses general shop safety practices	

Part 4—Sign Off Verification

Supervisor (Service Manager or appointed dealership supervisor)
The above evaluations are accurate to the best of my knowledge

Signature _____ Date _____

Print Name _____ Title _____

Student

Signature _____ Date _____

Review by Dealership Management/ Principal (optional)

The above evaluations have been reviewed by me

Signature _____ Date _____

Print Name _____ Title _____



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Honda Internship I			
Course Prefix & No. : HATN 190N	Lecture Hours: 0	Lab Hours: 12	Credit Hours: 2
Department: Transportation			
Program: Honda PACT			
Revision Date: 12/2021			

Prerequisites/ Co-requisites: HATN121, HATN113, 2.0 GPA

Required Accuplacer Score: N/A

Entrance Skills: To be eligible for Honda Internship the student must have successfully completed HATN 121N with Honda Express Service/Acura Accelerated Service HATN 113N. The student will need to acquire an internship position within a Honda or Acura dealership. In addition to completing the required courses, the student must obtain and maintain a 2.0 CGPA for internship eligibility. Good writing skills will be essential as students will be required to complete a journal to document their internship experience.

Catalog Description: The Honda Internship course is designed to be a supplement to the Honda PACT program learning experience. Students will be required to complete a total of 170 hours of in dealership work experience during the semester. The internship experience is a paid internship that must take place at a Honda or Acura dealership. Students will be responsible for completing a journal that will document their hours worked, assigned workload, and overall dealership experience. This course will be designated as a Pass/Fail course. Periodic internship visits will be performed by the assigned instructor to monitor student progress.

Course Competencies:

Competency (Knowledge and Skills)	Critical Thinking Level	Linked to Program Outcome(s) #
Students will be able to: 1. Successfully execute the roles of an express Service Technician (Honda) or Wet Tech or Dry Tech for Acura Accelerated Service	Employ, Operate, Repeat	
2. Student will work with a mentor and successfully complete assigned work by dealership personnel	Operate,	
3. Students will be able to utilize PACT training to complete automotive repair assignments successfully	Repeat, Employ	
4. Students will be able to work with others in an automotive dealership environment	Relate	

Course Outline: See Attached Evaluation Document

Content Topic: Work Experience Information and Feedback Form	Subtopics (a., b., etc.)

Performance Evaluation:

Formative Assessments	Summative Assessments
1) In Semester Journal Entries Evaluations 2) Internship visits	1) End of semester interview with direct supervisor 2) Documentation of hours worked 3) Journal completion per semester

Method of Instruction:

Live working internship experience

Instructional Facilities:

Honda or Acura Dealership

Revision History: December 2021 Jason Felton

Will this course be taught online? Yes ___ No X

If yes, please complete the Online Course Outline Form.



Work Experience Information and Feedback Form

Part 1—General information

Student Name _____ DPTS # _____

Dealership Name _____ Dealer # _____

Service Manager Name _____ Phone # _____

Your PACT student will soon be completing the ____ ____ term and reporting to work.

The student has the following schedule for class attendance:

End of term date: _____ Start of term date: _____

Please meet with your student during the first week of work to review this form and discuss the expectations that you have for this period. Include any incentives that may be reward for meeting those expectations.

This form will help you select work assignment for your PACT student and provide you an opportunity to evaluate the student's performance.

There are four parts to this work experience:

General information—This part explains the form and asks for identification data and general information

Skill Appraisal— This part lists the subjects and tasks that the student has covered in the last term. To reinforce the student's learning, we ask that no less than 30 percent to 50 percent of all tasks assigned be related to these areas.

Performance Appraisal—This part provides you with an opportunity to evaluate the student's work habits.

Sign-off Verification—This part asks for the signature of those involved with the evaluation of the PACT student's performance, including the student, service manager and any other interested dealership persons.

Part 2—Skill Appraisal

Skill Area

This tells you what skill area or course work the student has completed this term.

Tasks

This tells you what tasks the student is prepared to perform after this term's studies.

Log

Complete this at the end of the work experience term. Indicate yes if the student has recorded completing this task.

Evaluation

Complete this at the end of the work experience term. Rate the student's performance based upon dealership/industry performance standards. For each task listed, indicate the level of achievement.

1= Student demonstrates understanding but cannot apply the knowledge without supervision

2= Student performs this task satisfactorily with minimal supervision

3= Student performs this task without supervision

Skill Area	<i>Description of Related Tasks</i>	Logged (Y or N)	1 to 3 Scale Evaluations

What other types of tasks did the PACT student perform satisfactorily? (Use another piece of paper if necessary.)

Part 3—Work Habit Traits

Evaluation

Complete this at the end of the work term. Rate the student's performance based upon dealership/industry performance standards. For each trait, indicate the level of evaluation.

1= Student performs below expectations

2= Student performs satisfactorily with periodic supervision

3= Student demonstrates outstanding performance

Work Habit or Trait	Description	1 to 3 Scale Evaluations
Job knowledge	Overall knowledge or understanding of all aspects pertinent to the job (Materials equipment, techniques, product knowledge, etc).	
Quality of work	Accuracy, thoroughness, and neatness	
Quantity of work	Number of tasks performed during work period meets expectations	
Dependability	Punctuality and attendance, reliability in carrying out work assignments, amount of supervision required and conscientiousness.	
Behavior	Enthusiasm for job, level of cooperation with associates, supervision, etc. Receptivity to changes and new duties. Resourcefulness and versatility.	
Safety	Uses general shop safety practices	

Part 4—Sign Off Verification

Supervisor (Service Manager or appointed dealership supervisor)

The above evaluations are accurate to the best of my knowledge

Signature _____ Date _____

Print Name _____ Title _____

Student

Signature _____ Date _____

Review by Dealership Management/ Principal (optional)

The above evaluations have been reviewed by me

Signature _____ Date _____

Print Name _____ Title _____



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Honda Internship III			
Course Prefix & No. : HATN 191N	Lecture Hours: 0	Lab Hours: 12	Credit Hours: 2
Department: Transportation			
Program: Honda PACT			
Revision Date: 12/2021			

Prerequisites/ Co-requisites: HATN121, HATN113, 2.0 GPA

Required Accuplacer Score: N/A

Entrance Skills: To be eligible for Honda Internship the student must have successfully completed HATN 121N with Honda Express Service/Acura Accelerated Service HATN 113N. The student will need to acquire an internship position within a Honda or Acura dealership. In addition to completing the required courses, the student must obtain and maintain a 2.0 CGPA for internship eligibility. Good writing skills will be essential as students will be required to complete a journal to document their internship experience.

Catalog Description: The Honda Internship course is designed to be a supplement to the Honda PACT program learning experience. Students will be required to complete a total of 170 hours of in dealership work experience during the semester. The internship experience is a paid internship that must take place at a Honda or Acura dealership. Students will be responsible for completing a journal that will document their hours worked, assigned workload, and overall dealership experience. This course will be designated as a Pass/Fail course. Periodic internship visits will be performed by the assigned instructor to monitor student progress.

Course Competencies:

Competency (Knowledge and Skills) Students will be able to:	Critical Thinking Level	Linked to Program Outcome(s) #
1. Successfully execute the roles of an express Service Technician (Honda) or Wet Tech or Dry Tech for Acura Accelerated Service	Employ, Operate, Repeat	
2. Student will work with a mentor and successfully complete assigned work by dealership personnel	Operate,	
3. Students will be able to utilize PACT training to complete automotive repair assignments successfully	Repeat, Employ	
4. Students will be able to work with other in an automotive dealership environment	Relate	

Course Outline: See Attached Evaluation Document

Content Topic: Work Experience Information and Feedback Form	Subtopics (a., b., etc.)

Performance Evaluation:

Formative Assessments	Summative Assessments
1) In Semester Journal Entries Evaluations 2) Internship visits	1) End of semester interview with direct supervisor 2) Documentation of hours worked 3) Journal completion per semester

Method of Instruction:

Live working internship experience

Instructional Facilities:

Honda or Acura Dealership

Revision History: December 2021 Jason Felton

Will this course be taught online? Yes ___ No X

If yes, please complete the Online Course Outline Form.



Work Experience Information and Feedback Form

Part 1—General information

Student Name _____ DPTS # _____

Dealership Name _____ Dealer # _____

Service Manager Name _____ Phone # _____

Your PACT student will soon be completing the ____ ____ term and reporting to work.

The student has the following schedule for class attendance:

End of term date: _____ Start of term date: _____

Please meet with your student during the first week of work to review this form and discuss the expectations that you have for this period. Include any incentives that may be reward for meeting those expectations.

This form will help you select work assignment for your PACT student and provide you an opportunity to evaluate the student's performance.

There are four parts to this work experience:

General information—This part explains the form and asks for identification data and general information

Skill Appraisal— This part lists the subjects and tasks that the student has covered in the last term. To reinforce the student's learning, we ask that no less than 30 percent to 50 percent of all tasks assigned be related to these areas.

Performance Appraisal—This part provides you with an opportunity to evaluate the student's work habits.

Sign-off Verification—This part asks for the signature of those involved with the evaluation of the PACT student's performance, including the student, service manager and any other interested dealership persons.

Part 2—Skill Appraisal

Skill Area

This tells you what skill area or course work the student has completed this term.

Tasks

This tells you what tasks the student is prepared to perform after this term's studies.

Log

Complete this at the end of the work experience term. Indicate yes if the student has recorded completing this task.

Evaluation

Complete this at the end of the work experience term. Rate the student's performance based upon dealership/industry performance standards. For each task listed, indicate the level of achievement.

1= Student demonstrates understanding but cannot apply the knowledge without supervision

2= Student performs this task satisfactorily with minimal supervision

3= Student performs this task without supervision

Skill Area	<i>Description of Related Tasks</i>	Logged (Y or N)	1 to 3 Scale Evaluations

What other types of tasks did the PACT student perform satisfactorily? (Use another piece of paper if necessary.)

Part 3—Work Habit Traits

Evaluation

Complete this at the end of the work term. Rate the student's performance based upon dealership/industry performance standards. For each trait, indicate the level of evaluation.

1= Student performs below expectations

2= Student performs satisfactorily with periodic supervision

3= Student demonstrates outstanding performance

Work Habit or Trait	Description	1 to 3 Scale Evaluations
Job knowledge	Overall knowledge or understanding of all aspects pertinent to the job (Materials equipment, techniques, product knowledge, etc).	
Quality of work	Accuracy, thoroughness, and neatness	
Quantity of work	Number of tasks performed during work period meets expectations	
Dependability	Punctuality and attendance, reliability in carrying out work assignments, amount of supervision required and conscientiousness.	
Behavior	Enthusiasm for job, level of cooperation with associates, supervision, etc. Receptivity to changes and new duties. Resourcefulness and versatility.	
Safety	Uses general shop safety practices	

Part 4—Sign Off Verification

Supervisor (Service Manager or appointed dealership supervisor)

The above evaluations are accurate to the best of my knowledge

Signature _____ Date _____

Print Name _____ Title _____

Student

Signature _____ Date _____

Review by Dealership Management/ Principal (optional)

The above evaluations have been reviewed by me

Signature _____ Date _____

Print Name _____ Title _____



NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: Honda Internship IV			
Course Prefix & No. : HATN 192N	Lecture Hours: 0	Lab Hours: 12	Credit Hours: 2
Department: Transportation			
Program: Honda PACT			
Revision Date: 12/2021			

Prerequisites/ Co-requisites: HATN121, HATN113, 2.0 GPA

Required Accuplacer Score: N/A

Entrance Skills: To be eligible for Honda Internship the student must have successfully completed HATN 121N with Honda Express Service/Acura Accelerated Service HATN 113N. The student will need to acquire an internship position within a Honda or Acura dealership. In addition to completing the required courses, the student must obtain and maintain a 2.0 CGPA for internship eligibility. Good writing skills will be essential as students will be required to complete a journal to document their internship experience.

Catalog Description: The Honda Internship course is designed to be a supplement to the Honda PACT program learning experience. Students will be required to complete a total of 170 hours of in dealership work experience during the semester. The internship experience is a paid internship that must take place at a Honda or Acura dealership. Students will be responsible for completing a journal that will document their hours worked, assigned workload, and overall dealership experience. This course will be designated as a Pass/Fail course. Periodic internship visits will be performed by the assigned instructor to monitor student progress.

Course Competencies:

Competency (Knowledge and Skills) Students will be able to:	Critical Thinking Level	Linked to Program Outcome(s) #
1. Successfully execute the roles of an express Service Technician (Honda) or Wet Tech or Dry Tech for Acura Accelerated Service	Employ, Operate, Repeat	
2. Student will work with a mentor and successfully complete assigned work by dealership personnel	Operate,	
3. Students will be able to utilize PACT training to complete automotive repair assignments successfully	Repeat, Employ	
4. Students will be able to work with other in an automotive dealership environment	Relate	

Course Outline: See Attached Evaluation Document

Content Topic: Work Experience Information and Feedback Form	Subtopics (a., b., etc.)

Performance Evaluation:

Formative Assessments	Summative Assessments
1) In Semester Journal Entries Evaluations 2) Internship visits	1) End of semester interview with direct supervisor 2) Documentation of hours worked 3) Journal completion per semester

Method of Instruction:

Live working internship experience

Instructional Facilities:

Honda or Acura Dealership

Revision History: December 2021 Jason Felton

Will this course be taught online? Yes ___ No X

If yes, please complete the Online Course Outline Form.



Work Experience Information and Feedback Form

Part 1—General information

Student Name _____ DPTS # _____

Dealership Name _____ Dealer # _____

Service Manager Name _____ Phone # _____

Your PACT student will soon be completing the ____ ____ term and reporting to work.

The student has the following schedule for class attendance:

End of term date: _____ Start of term date: _____

Please meet with your student during the first week of work to review this form and discuss the expectations that you have for this period. Include any incentives that may be reward for meeting those expectations.

This form will help you select work assignment for your PACT student and provide you an opportunity to evaluate the student's performance.

There are four parts to this work experience:

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Performance Appraisal—This part provides you with an opportunity to evaluate the student's work habits.

Sign-off Verification—This part asks for the signature of those involved with the evaluation of the PACT student's performance, including the student, service manager and any other interested dealership persons.

Part 2—Skill Appraisal

Skill Area

This tells you what skill area or course work the student has completed this term.

Tasks

This tells you what tasks the student is prepared to perform after this term's studies.

Log

Complete this at the end of the work experience term. Indicate yes if the student has recorded completing this task.

Evaluation

Complete this at the end of the work experience term. Rate the student's performance based upon dealership/industry performance standards. For each task listed, indicate the level of achievement.

1= Student demonstrates understanding but cannot apply the knowledge without supervision

2= Student performs this task satisfactorily with minimal supervision

3= Student performs this task without supervision

Skill Area	Description of Related Tasks	Logged (Y or N)	1 to 3 Scale Evaluations

What other types of tasks did the PACT student perform satisfactorily? (Use another piece of paper if necessary.)

Part 3—Work Habit Traits

Evaluation

Complete this at the end of the work term. Rate the student's performance based upon dealership/industry performance standards. For each trait, indicate the level of evaluation.

1= Student performs below expectations

2= Student performs satisfactorily with periodic supervision

3= Student demonstrates outstanding performance

Work Habit or Trait	Description	1 to 3 Scale Evaluations
Job knowledge	Overall knowledge or understanding of all aspects pertinent to the job (Materials equipment, techniques, product knowledge, etc).	
Quality of work	Accuracy, thoroughness, and neatness	
Quantity of work	Number of tasks performed during work period meets expectations	
Dependability	Punctuality and attendance, reliability in carrying out work assignments, amount of supervision required and conscientiousness.	
Behavior	Enthusiasm for job, level of cooperation with associates, supervision, etc. Receptivity to changes and new duties. Resourcefulness and versatility.	
Safety	Uses general shop safety practices	

Part 4—Sign Off Verification

Supervisor (Service Manager or appointed dealership supervisor)

The above evaluations are accurate to the best of my knowledge

Signature _____ Date _____

Print Name _____ Title _____

Student

Signature _____ Date _____

Review by Dealership Management/ Principal (optional)

The above evaluations have been reviewed by me

Signature _____ Date _____

Print Name _____ Title _____