

# Mt. San Jacinto Community College District Secondary and Community College Course Articulation Agreement

## Statement of Intent

This agreement enables students to receive college credit and/or a waiver of a prerequisite for coursework at the secondary level comparable to courses offered by Mt. San Jacinto Community College District. The granting of college "credit-by-examination" is based upon achievement of competencies through a course, or courses, as defined in Attachment B, which specifies the conditions of the articulation agreement.

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This agreement between Mt. San Jacinto Community College District and high schools or R.O.P. shall remain in force for an indefinite period of time but shall be reviewed for consideration of continuation every three years. This review will include an examination of up-to-date course outlines and a discussion of current teaching methodologies and stated competencies. Either party to the agreement may terminate this agreement at the close of any school year by proper written notice delivered to the Superintendent/President of Mt. San Jacinto College or to the Superintendent of the secondary or R.O.P. educational institution.

AUME 079 Honda Express Service


Name and Number of Course/MSJCCD

RCOE ROP Auto Technology Yr 1

Name & Number of Course/High School/ROP


**Mt. San Jacinto Community College District**

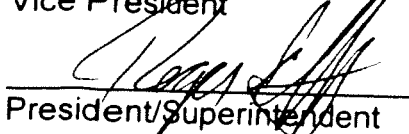
**Secondary/ROP Educational Institution**


 9/15/09  
Department Chair Date

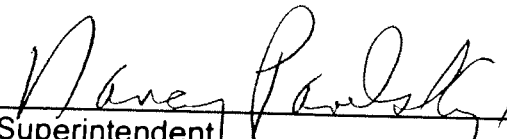
 9/15/09  
Dean, Instruction Date

 11/12/09  
Curriculum Committee (Information item) Date

 11/13/09  
Vice President Date

 11/18/09  
President/Superintendent Date

 12/03/09  
Principal/Program Administrator Date

 12-4-09  
Superintendent Date

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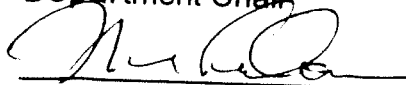
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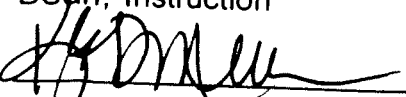
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Mt. San Jacinto Community College District

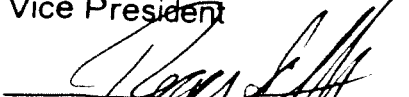
Secondary/ROP Educational Institution

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Department Chair Date

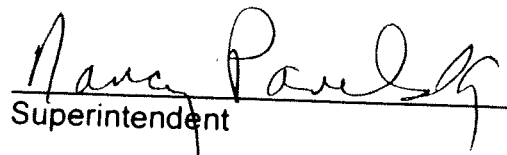
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 11/12/09  
Curriculum Committee (Information item) Date

 4/13/09  
Vice President Date

 11/18/09  
President/Superintendent Date

 12/3/09  
Principal/Program Administrator Date

 12-4-07  
Superintendent Date



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Secondary and Community College  
Course Articulation Agreement**

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ALUME 079 HONDA EXPRESS SERVICE  
(Name and Number of course/MSJCCD)

RCOE ROP. AUTO TECHNOLOGY Year 1  
(Name and Number of Course/High School/R.O.P.)

**Mt. San Jacinto Community College District**

**Secondary/R.O.P. Educational Institution**

Dudyalak Rampusad 4/17/07  
(Department Chair) (Date)

Clare Spence 12/3/09  
(Principal/Program Administrator) (Date)

Richard D. Bowly 5/7/08  
(Dean, Instruction) (Date)

Richard D. Bowly 5/29/07  
(Curriculum Committee-Information item) (Date)

P. Deagan 7/4/07  
(Vice President) (Date)

[Signature] 7/11/07  
(President Superintendent) (Date)



Mt. San Jacinto Community College District  
Secondary and Community College  
Articulated Course Standards and Criteria

Attachment

Date: 17th April, 2007

AUME 079  
Honda Express Service

RCOE Regional Occupational  
Automotive Technology Year I Prog.

MSJC AUME 079

10058 ROP Automotive Technology (RCOE)

Description of Articulated High School or ROP Course Standards  
Course Outline Attached

**Content or Theory Summary:**

1. Express Service Choreography
  - a. Choreography overview
  - b. Express Service
  - c. Express Service Resources
  - d. 7,500 Mile Express Service—Solo Technician (30min)
  - e. 30,000 Mile Express Service—Two Technicians (15min)
2. Braking System Inspection
  - a. Hydraulic Braking system Overview
  - b. Braking System Components—Disc and Drum Brakes
  - c. Braking System Inspection—Fluid level, Brake Pad or Lining Thickness
  - d. Disc Brake or Drum Brake Measurements
3. Torque Procedure
  - a. Understanding Torque—What it is and why it is Important
  - b. Torque Wrenches—Click-type, Beam-type, and Dial-type
  - c. Insuring Accurate Readings
  - d. Torque Sticks
  - e. Preset Torque Wrenches
4. Initial Checks
  - a. Horn
  - b. Parking Brake
  - c. Lights—Exterior and Interior
  - d. Wiper Blade Function and Wear
  - e. Wiper Blade Replacement and Nozzle Check
5. Clutch Operation and Inspection
  - a. Clutch Function
  - b. Clutch components
  - c. Hydraulic Clutch Release
  - d. Mechanical Clutch Release
  - e. Clutch Inspection Procedure
  - f. Clutch Pedal Height and Free Play Inspection

- a. Battery Function and Construction
  - b. Battery Safety—Connections, Jump-starting, Charging, Replacing
  - c. Inspecting the Battery
  - d. Battery Clean-up
  - e. Checking Charge Indicators
  - f. Checking Electrolyte Levels
  - g. Refilling Battery Fluid
  - h. Battery Testing
7. Fluid Level Checks
- a. Vehicle Fluids Overview—Fluids, Reservoirs, Fluid Checks
  - b. Engine Coolant—Purpose and Function, Locate and Identify, Check Fluid Level, Add Coolant, Identify Leaks
  - c. Brake Fluid— Purpose and Function, Locate and Identify, Check Fluid Level, Add Coolant, Identify Leaks
  - d. Clutch Master Cylinder Fluid—Purpose and Function, Locate and Identify, Check Fluid Level, Add Coolant, Identify Leaks
  - e. Power Steering Fluid—Purpose and Function, Locate and Identify, Check Fluid Level, Add Coolant, Identify Leaks
  - f. Automatic Transmission Fluid— Purpose and Function, Locate and Identify, Check Fluid Level, Add Coolant, Identify Leaks
  - g. Windshield Washer fluid— Purpose and Function, Locate and Identify, Check Fluid Level, Add Coolant, Identify Leaks
8. Drive Belt and Cooling System Hose Inspection
- a. Drive Belt Function
  - b. Drive Belt Inspection—Tension, Damage
  - c. Cooling System Components and Function
  - d. Cooling System Hose Inspection and Damage
9. Hydraulic Lift Operation
- a. Express Service Lifts and Controls
  - b. Positioning of Vehicle
  - c. Raising and Lowering the Vehicles
  - d. Surface Mounted and In-ground Lifts
  - e. Non-Express Service Hydraulic Lifts
10. Oil and Oil Filter Replacement
- a. Oil Grades and Viscosity
  - b. Oil Viscosity Recommendations and Oil Change Interval
  - c. Replacing the Oil, Oil Filter and Checking Oil Levels
    - i. Drain Bolt and Oil Removal
    - ii. Drain Bolt Inspection
    - iii. Oil Filter Removal and Filter Selection and Installation
  - d. Maintenance Indicator Light
  - e. Rechecking Oil Level
11. Under Vehicle Inspection
- a. Exhaust System Components and Inspection—Muffler, Exhaust Pipes, Resonator, Catalytic Converter, Oxygen Sensors
  - b. Suspension System Inspection—Springs, Shock Absorbers, Suspension Arms, Connecting Hardware, Rubber Bushings
  - c. Check Fluid Lines—Gas, Brake, Coolant, Power Steering, Air Conditioning
12. Tire Inspection
- a. Tire Construction and Function—Radial Tires, Tire Traction
  - b. Tire Inspection—Wear Damage
  - c. Tire Inflation—Under Inflation, Over Inflation
  - d. Tire Tread Depth Measurement and Treadwear Indicators
  - e. Tire Rotation

## Methods of Instruction:

1. Lecture presentation and classroom discussion on current procedures utilized to perform express servicing of vehicles.
2. Use online PowerPoint media from Honda illustrating detailed module material illustrating all aspects of course data.
3. Hands-on activities demonstrating correct use of equipment necessary to perform Express service.
4. In-class group discussions and research assignments to analyze a variety of vehicle case situations.
5. Individual and group activities including brake inspections, oil changes, battery inspections, fluid inspection and recommendations for repair if needed.

## Competencies:

1. Analyze and describe the resources available to properly perform an Express Service inspection and service.
2. Compare and contrast the two types of braking systems used on today's vehicles and how they operate.
3. Describe the different types of torque wrenches and how to use them.
4. Identify and describe the operation of the vehicle horn, parking brake, and interior and exterior lights.
5. Identify construction and function of automotive batteries and the inspection process of battery exterior and cables for signs of damage.
6. Identify the location of the various fluid level check points and describe the filling procedure for each fluid.
7. Describe the cooling system and coolant hose functions.
8. Compare and contrast the key components of a hydraulic lift and its functions.
9. Describe the procedure for filling the engine with oil and determining the correct oil level.
10. Perform an exhaust system inspection, identifying leaks or malfunctioning components.
11. Describe tire construction and function and identify the wear characteristics due to improper inflation and incorrect alignment.

## Measurement Methods:

1. Students will be assessed on their contributions during class discussions and participation in problem solving activities, lab demonstrations, simulated exercises and group projects.

2. Quizzes, tests at the end of each module and a final examination will be given to test for content understanding of terminology, knowledge of subject matter, and ability to perform and evaluate timed service functions required of a Express technician.
3. Students will be evaluated on their ability to safely assess and perform Express tasks in each segment of the curriculum.
4. Students must pass the practical final examination for Express Service certification.
5. Students interested may:
  - i. complete all online requirements by Honda.
  - ii. Demonstrate the service procedure as required by Honda.
    - a. single person (1 Tech) – 30 minutes
    - b. double (2 Tech) teamwork – 15 minutes.

\*Note: May Attach Articulation Crosswalk

Articulation Form #2



## Attachment B

### Mt. San Jacinto Community College District Secondary and Community College Articulated Course Standards and Criteria (continued)

#### Application of Lab:

<b>Total Units</b> 1.5	<b>Lab Units</b> 0.5
<b>Total Hours</b> 40-45	<b>Lab Hours</b> 24-27

#### Hours of Instruction:

<b>Lecture Units</b> 1.0
<b>Lecture Hours</b> 16-18

Textbook or Other Support

TEXTBOOK: *Auto Upkeep-Basic Car Care by Michael E. Gray*

ISBN 0-9740792 -0-0

**Special Equipment:**

EB18 Honda Battery Tester or Equivalent

Specialized tool set provided by Honda or Equivalent

**Other:**

Specialized Twin-post lift - Honda Specific and or Equivalent retrofitted twin post Lift

Articulation Form #2

**Mt. San Jacinto Community College District  
Secondary and Community College  
Course Articulation Agreement  
“Credit-By-Examination Criteria”**

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**Course Name: AUME 079: Honda Express Service**

***Please describe the “credit-by-examination” method (exam, project, portfolio, etc...) required for student to receive college credit. Attach a sample if possible.***

The following articulation procedure is what the auto staff agreed upon for AUME 079, Honda Express Service. The agreement was that the ROP county office would administer the “credit-by-examination” written exam. Students who want credit for the AUME 079, Honda Express Service, program would have to pass the ROP auto final exit exam with a minimum of a B (80% correct). The student designated as having successfully passed the exam would then have to pass the MSJC administered “hands-on competency” assessment. This hands-on assessment requires the completion of ten [10] designated AUME 079, Honda Express Service, “hands-on tasks,” which are based on NATEF standards and Honda Corporate requirements. These would be administered by one of the AUME 079, Honda Express Service, instructors at the MSJC campus. Students must pass these tasks with a minimum of a B [8/10].

***Please describe the necessary procedure for the test to be administered (who will administer the test, where will it be taken, how will it be scored, etc...)***

ROP county office has the master written exam. The county distributes the test at the end of the semesters to the auto instructors. They give the tests and the county corrects them. Students identified with the articulation would have the grades submitted to MSJC by the ROP county office.

Students passing the “credit-by-examination” written exam with a B grade will schedule an appointment with the MSJC automotive department for the “hands-on competency” assessment. MSJC will notify the ROP county office of the results of the “hands-on competency” assessment. Students meeting the credit-by-examination criteria for both the written and hands-on assessments will be eligible for course credit per the articulation agreement.