



Technical Education
and Skills Development Authority

Webliography

The Webliography is an electronic bibliographic listing of topics related to the qualification titles of a particular TVET priority sector, with pre-searched *URLs* (uniform resource locators) and descriptions (abstracts).

The pre-searched *URLs* provide contents in reference to the title of promulgated Training Regulations (TR). By clicking the weblinks (underlined *URLs* in blue text), your internet browser will direct you to the website/webpage where you can find the topic related to the title you selected. The Webliography is a useful tool for trainers who are designing and developing competency-based curriculum and learning materials.

[TESDA](#) » [Webliography](#) » [Automotive and Land Transport Sector](#)

INTERNET RESOURCES

Automotive and Land Transport

Scope:

A self-propelled passenger vehicle that usually has four wheels and an internal-combustion engine, used for land transport. Also called *motorcar*. Technicians on this sector have various classifications and levels.

Source:

<http://www.thefreedictionary.com/automobile>

List of qualifications:

- Automotive body painting /finishing NC I – III
- Automotive body repairing NC II
- Automotive engine rebuilding NC II
- Automotive electrical assembly NC II - III
- Automotive mechanical assembly NC II - III
- Automotive servicing NC I – IV
- Automotive servicing III [LPG retrofitting and re-powering]
- Driving NC II – III
- Foundry melting /casting NC II - III
- Foundry molding NC II -III
- Foundry patternmaking NC II - III
- Heat treatment NC II
- Laboratory metrology/calibration services NC II
- Motorcycles/small engine servicing NC II
- Process inspection NC II
- Tinsmithing (automotive manufacturing) NC II

❖ **Automobile:answer.com**

<http://www.answers.com/topic/automobile>

"This webpage from answer.com provides a definition of automobile."

❖ **The Philippine automotive industry**

<http://pacci.ph/the-philippine-automotive-industry/>

"This webpage provides information about the situation of the automotive industry in the country."

❖ **Automotive technician training - virtual learning environment**

<http://www.auto-training.co.uk/>

"This website provides on-line access to learning materials (including animations, videos, graphics and assessment questions and activities) and covers the whole range of automotive qualifications."

❖ **Automotive Technology A Systems Approach**

<http://automotivetechnologyasystemsapproach.blogspot.com/2011/10/automotive-technology-systems-approach.html>

"This webpage provides theory on automotive technology including links to quizzes, answers to queries with textbook type learning materials."

❖ **Land transportation in the Philippines**

<http://www.lto.gov.ph/>

"This website pertains to the profiles of LTO; policies, systems; and guidelines in which auto technicians/mechanics should know."

❖ **Land transportation Franchising and Regulatory Board**

<http://ltfrb.gov.ph/#sthash.s0SUOfwF.dpbs>

"This webpage pertains to the profiles of LTFRB; policies, systems; and guidelines in which vehicle owners/operators should know."

❖ **The LawPhil Project**

http://www.lawphil.net/statutes/repacts/ra1964/ra_4136_1964.htmls

"This webpage provides information about the laws relative to the land transportation and traffic rules in the Philippines under RA 4136."

INTERNET RESOURCES

Automotive Body Painting/Finishing NC I

Core Competencies:

- Prepare undamaged surface for painting
- Apply and remove masking
- Spray solid color paints
- Perform polishing

Automotive Body Painting/Finishing NC II

Core Competencies:

- Assess Auto Paint Jobs
- Prepare Undamaged Surface for Painting
- Prepare Damaged Surface for Painting
- Apply and Remove Masking
- Spray Solid Color Paints
- Repair Solid Color Paints
- Perform Polishing
- Perform Solid/Metallic Color Mixing
- Spray Metallic Color Paint
- Repair Metallic Color Paints

Automotive Body Painting/Finishing NC II

Core Competencies:

- Perform Pearl Color Matching
- Spray Three-Stage Pearl or Mica Color Paint

Automotive Body Repairing NC II

Core Competencies:

- Prepare Vehicle Body for Repair
- Repair Body Panel
- Replace Damaged Parts with Pre-Fabricated Parts

❖ **Car body work: how to polish your car rims: guide**
<http://carbodywork.blogspot.com/2006/10/how-to-polish-your-car-rims-guide.html>

"This webpage provides information and the steps to polish the stock integral car rims"

❖ **6 car repairs you can't afford to skip**
[http://autos.yahoo.com/articles/autos_content_landing_pages/1013/6-car-repairs-you-cant-afford-to-skip/;](http://autos.yahoo.com/articles/autos_content_landing_pages/1013/6-car-repairs-you-cant-afford-to-skip/)

"This webpage is an online learning resource that offers six (6) repair topics for automotive and land transport industry."

❖ **Leaning center-all automotive...a complete list of automotive titles**
<http://www.tcpglobal.com/learningcenter/lc030.asp>

"This webpage provides an online catalogue of automotive learning materials in which the contents may be viewed. It includes quizzes to test the knowledge gained in a certain learning material titles."

❖ **Painting and coating workers, except construction and maintenance**
<http://www.bls.gov/oco/ocos240.htm>

"This webpage provides a handbook of information on occupational outlook for the years 2008-2009 for painting occupations."

❖ **Learn auto painting "your essential auto painting resource"**

http://www.learnautopainting.com/using_body_filler.htm

"This webpage is an "essential auto painting resource" in surface preparation, body work, and auto paint repair with different modules applicable to most common car painting problems."

❖ **Painting plastic right the first time: autoparts**

<http://www.searchautoparts.com/searchautoparts/article/articleD>

"This webpage provides information on the techniques, procedures, and precaution used when painting the plastic parts of an automobile"

❖ **Automotive body repair I and II**

<http://www.bedford.k12.va.us/bstc/colrepair>

"The webpage provides a learning resource equivalent to three(3) unit credits to the automotive body repair course. It consists of the course syllabus, competency record and the program systems".

❖ **Automotive body repair assistant(5DV1)(EE)**

<http://www.centralgatech.edu/catalog/section6/tr/5DV1.htm>

"This webpage provides a description in the technical certificates of credits for ABR: assistants".

❖ **Automotive repair shops: industry profiles**

<http://valuationresources.com/Reports/SIC7532AutoBodyShops.htm>

"This webpage provides information for industry profile issues, trends and outlook of various automotive repair shops for accepting on-the-job training".

❖ **Body repair manuals**

<http://www.carparts.com/Body-Repair-Manuals/600022106.car>

"This webpage contains various quality body repair manuals according to the brand and model of vehicles".

❖ **Collision repair manuals & auto body repair manuals**

http://www.contractor-books.com/Automotive_Collision.htm

INTERNET RESOURCES

Automotive Engine Rebuilding NC II

Core Competencies:

- Interpret Technical Manual Specification of Engine Components
- Disassemble Engine Block and Sub-Assemblies, Checks
- Tolerances and Components
- Disassemble Engine Sub-Assemblies/Cylinder Heads and Check Components
- Carry Out Pre-Repair Operations on Engine Components
- Inspect Engine Components and Determine Preferred Action
- Carry Out Machining Operations
- Set, Operate and monitor Specialized Machines
- Use and Maintain Measuring Instrument
- Assemble Engine Block and Sub-Assemblies, Check Tolerances and Carry Out Relevant Testing
- Assemble Engine/Cylinder Heads, Check Tolerances and Carry Out Relevant Testing Procedures

Automotive Electrical Assembly NC II

Core Competencies:

- Install/Fit Out Electrical Parts to Engine Assembly
- Install/fit Out Electrical Parts and Electronic Units to Body Interior
- Compartment
- Install/Fit Out Electrical Parts and Electronic Units to Dash Instrument Panel
- Install/Fit Out Electrical Parts to Exterior and Engine Compartment
- Install/Fit Out Audio and Video Systems
- Perform Headlight Focus Aiming

"This webpage contains various learning resource materials like books, study guide, cd's and dvd's in collision repair".

❖ The complete guide to auto body repair

<http://search.barnesandnoble.com/booksearch/isbnInquiry.asp?r=1&ISBN>

"This webpage provides learning resource materials on the overview, editorials and product details in automotive body repair".

❖ Full-text online journals: automotive and trucking industry web site

<http://www.questia.com/Index.jsp>

"This webpage provides full-text online learning resource materials and articles which are also the most up-to-date issues, trends, technology profiles and events of automotive and truck industry".

❖ Automotive engine rebuilding

http://shop.ebay.com/items/?_nkw=automotive+engine+rebuilding&_armrs=1&_from

"The webpage features a catalogue learning resource materials with six(6) relevant resource materials for engine rebuilding."

[Retrieved July 02, 2009]

❖ Engine re-building

<http://www.wikihow.com/Rebuild-an-Engine.htm>

"This webpage shows the process of rebuilding an engine in five (5) parts."

[Retrieved April 24, 2014]

❖ Engine rebuilding tips: automotive diagnostic & repair help for cars & trucks

http://www.importtuner.com/tech/impp_1106_top_7_engine_building_tips/

"This webpage shows 7 tips in rebuilding an engine."

[Retrieved April 24, 2014]

❖ How to rebuild an automotive engine

http://www.crankshaftcoalition.com/wiki/How_to_rebuild_an_engine

"This webpage illustrates the process details of engine rebuilding."

[Retrieved April 24, 2014]

❖ Automotive electrical assembler mechanic II

<http://search.usa.gov/search?utf8=%E2%9C%93&affiliate=oshr.nc.gov&query=07312>

"This webpage provides information that describes the scope of work of an automotive electrical assembler mechanic level II."

[Retrieved April 24, 2014]

❖ Glencoe automotive excellence: automotive technology II

<http://www.glencoe.com/correlations/PDFs/NCAutoExv2.pdf>

"This webpage provides information that discusses the competencies acquired by each competent automotive mechanic."

[Retrieved July 02, 2009]

❖ National electrical code tips

<http://www.codebookcity.com/codearticles/nec/necarticle503.htm>

"This reference learning resource material is intended for engineers and construction workers in referring the standard codes, techniques on electrical works".

[Retrieved July 09, 2009]

INTERNET RESOURCES

Operations

Automotive Electrical Assembly NC III

Core Competencies:

- Rectify Faults on Installed Electrical Parts to Engine Assembly
- Rectify Faults on Installed Electrical Parts and Electronic Units to Body Interior Compartment
- Rectify Faults on Installed Electrical Parts and Electronic Units to Dash Instrument Panel
- Rectify Faults on Installed Electrical Parts to Exterior and Engine compartment
- Rectify Faults on Installed Audio and Video System to Automotive Vehicle

Automotive Mechanical Assembly NC II

Core Competencies:

- Assemble Mechanical Assemblies using Jigs/Fixtures
- Mount/Install Brake and Fuel Systems
- Mount/Install Power Drive System
- Mount/Install Suspension Drive Train
- Install/Fit out Trim Parts/ and Assemblies
- Perform Final Engine Run
- Perform Wheel Alignment Operations

Automotive Mechanical Assembly NC III

Core Competencies:

- Conduct Engine Hot Test
- Rectify Assembly Faults on Assembled Mechanical Assemblies
- Rectify Faults on Mounted/Installed Brake and Fuel System
- Rectify Faults on Mounted/Installed Power Drive System
- Rectify Faults on Mounted/Installed Suspension Drive Train

❖ Ugly's electrical references

<http://www.pipewriter.com/dolphincart/category.php?cat=Cat0011>

"This webpage focuses on the Ohm's law, series circuits, parallel circuits, electrical formulas, motors, wiring diagrams, insulation charts, etc."

[Retrieved July 09, 2009]

❖ Automotive brake: sCI-TECH

<http://www.answers.com/topic/automotive-brake>

"This webpage features the terminologies commonly used in assembling mechanical parts of an automobile."

[Retrieved July 06.09]

❖ ASE: test information for the advanced engine performance specialist (L1)

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=6647

"This webpage is intended for an advanced engine performance specialist in preparation for an assessment to become a mechanic."

[Retrieved Jul 14, 2009]

❖ ASE engine machinist test: study guide

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=6655

"This webpage provides information about the modules for an engine machinist for a cylinder head; cylinder block; assembly and how to become an specialist on each field of specialization..."

[Retrieved July 14, 2009]

❖ The evolution of adhesives used in structural & assembly application 1940 - present

<http://www.omnexus4adhesives.com/getting-started/evolution-of-adhesives.aspx>

"This webpage provides information about the evolution of adhesives and its benefits in structural and assembly applications."

[Retrieved July 06.09]

❖ Camneticsinc: recommended books

<http://www.camnetics.com/books.htm#MechDesignHandbook>

"This webpage features a list of recommended titles with corresponding brief scopes of its title, some pages are downloadable "

[Retrieved July 06, 2009]

❖ Free e-Book download c2008;manuals books, tutorial, service manual

<http://www.ebooksquad.com/category/automotive>

"This webpage provides freed downloadable service manuals, books and tutorials according to brand of automobile."

INTERNET RESOURCES

[Retrieved July 06, 2009]

❖ Automotive systems: the open content textbooks collection by Wikipedia

http://en.wikibooks.org/wiki/Automotive_Systems

"This webpage is an open content learning resource with different titles and can be commented or edited."

[Retrieved July 06, 2009]

❖ Kohler generators engine service manual

<http://stephenchastain.com/book6.htm>

"This webpage describes both the industrial and marine generators on the operation, adjustment and the complete tear down and rebuild of the generator."

[Retrieved July 16, 2009]

❖ Mech- 510 : Analysis and design of mechanical assemblies(4-0-

<http://www.gmi.edu/forms/pdf/facultySenate/MECH510.pdf>

"This webpage provides a course design in automotive mechanical design."

[Retrieved July 06, 2009]

❖ Automotive brake: SCI-TECH

<http://www.answers.com/topic/automotive-brake>

"This Website of learning resource material are terminologies commonly used in assembling mechanical parts of an automobile."

[Retrieved July 06, 2009]

❖ Automotive systems: the open content textbooks collection by Wikipedia

http://en.wikibooks.org/wiki/Automotive_Systems

"This webpage is an open content learning resource material with different titles and can be commented or edited."

[Retrieved July 06, 2009]

❖ ASE: advanced engine performance specialist (L1)

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=664

"This webpage features a learning resource material for an advanced engine performance specialist in preparation for the assessment of auto mechanic."

[Retrieved Jul 14, 2009]

❖ ASE automobile test: the official ASE study guide

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=6646

"This webpage provides learning resource materials for the profile of the ASE, components of the assessment tools and tips on how to become a certified automobile technician."

[Retrieved July 14, 2009]

❖ ASE collision repair and refinish test: study guide

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=6649

"This webpage discusses the collision repair/refinish tasks such as painting and refinishing, non-structural analysis and damage repair, structural analysis and damage repair; mechanical and electrical components and damage analysis and estimating."

[Retrieved July 14, 2009]

❖ ASE: electronic diesel engine diagnosis specialist test(L2)

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=6651

"This is a learning resource material webpage that discusses the overview, test specification; task list; sample questions for assessment test for an electronic diesel engine specialist."

[Retrieved July 14, 2009]

Automotive Servicing NC I

Core Competencies:

- Perform diesel engine tune up
- Perform gas engine tune up
- Remove and replace electrical/electronic units/assemblies
- Remove and tag engine system components
- Remove and tag automotive steering, suspension and brake system components
- Remove and tag transmission system components

Automotive Servicing NC II

Core Competencies:

- Service Automotive Battery
- Service Ignition System
- Test and Repair Wiring/Lighting System
- Service Starting System
- Service Charging System
- Service Engine Mechanical System
- Service Clutch System
- Service Differential and Front Axle
- Service Steering System
- Service Brake System
- Service Suspension System
- Perform Underchassis Preventive Maintenance
- Overhaul Manual Transmission

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Automotive Servicing NC III

Core Competencies:

- Test and Repair Electrical Security System/Components
- Service Electronic Engine Management
- Overhaul Engines and Associated Components
- Service Automatic Transmission
- Perform Maintenance Service Check-Up and Repair to Auto AC System
- Remove and Replace Automotive Engine and Engine-Related Systems
- Service and repair electronically controlled steering systems
- Service and repair electronically controlled suspension systems
- Repair Instruments and warning systems
- Carry out diagnostic procedures

Auto Servicing [LPG Retrofitting/Re-Powering NC III

❖ Install Electrical Security System/Components

<https://www.youtube.com/watch?v=gHtBTSBHyCY>

"This webpage is detailed video presentation on the different components, parts, diagram, and the procedures in the installation of car security alarm system"

(Retrieved October 1, 2015)

❖ Installing Car Alarm

<http://www.wikihow.com/Install-a-Car-Alarm>

"This webpage provides information on the steps in installing car alarm."

(Retrieved October 1, 2015)

❖ Multi-tester

<https://www.youtube.com/watch?v=bF3OyQ3HwfU>

"This webpage provides information on the steps and proper usage of multi-tester in a video form".

(Retrieved October 1, 2015)

❖ Electrical Concepts

<https://www.youtube.com/watch?v=ARxzZE36lo0>

"This webpage provides information on electrical concepts" It is in the form of video presentation/video enlightening wider concepts with regards to electricity"

(Retrieved October 1, 2015)

❖ Ohm's Law

<https://www.physics.uoguelph.ca/tutorials/ohm/Q.ohm.intro.html>

"This webpage is an "essential material providing information on ohm's law." It is here where learners will know the relationship between current, resistance and voltage. It also includes about electrons flow, polarity, circuit and other important information"

(Retrieved October 1, 2015)

❖ Troubleshooting Car Alarm System

<https://www.youtube.com/watch?v=YGlib98wBxAD>

"This webpage provides information on the techniques, procedures, and precautions to be observed when performing troubleshooting car alarm system through video presentation."

❖ Alternative fuels, energy efficiency & conservation: public consultation

https://www.doe.gov.ph/doe_files/pdf/01_Energy_Situationer/2008%20RE%20Alternative%20Fuels%20Energy%20Efficiency%20and%20Conservation.pdf

"This webpage features a PowerPoint presented during the public consultation for the Philippine Energy Plan [PEP] 2008-2030 Tacloban City July 21, 2008."

[Retrieved Jul 15, 2009]

❖ Alternative fuels and energy technologies

<https://www.doe.gov.ph/about-doe/what-we-do/bureau-services-functions/1454-alternative-fuels-and-energy-technology-division>

"This webpage provides learning resources on utilization of alternative fuels to achieve energy security and fuel diversification."

[Retrieved July 15, 2009]

❖ LPG: autoLPG - quality with economy

<http://www.autolpg.co.uk/news.html>

"This webpage is a collection of ten(10) articles of press releases of learning resource on conversion of fuel into LPG re-fueling."

[Retrieved July 15, 2009]

❖ The renewable path to energy security - American energy 2006(PDF)

<http://www.worldwatch.org/node/4405>

"This webpage features a press release report of enhancing energy

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security; building a new energy economy, a cleaner and healthier environment; use of resources and technologies."

[Retrieved July 15, 2009]

❖ **Transportation Act 2005 CNG,LNG,LPG and hydrogen**

<https://www.doe.gov.ph/programs-projects-alternative-fuels/293-auto-lpg/1139-auto-lpg-march-2012>

"This webpage features 27 slides of PowerPoint which discusses the conversion of fuel used by auto vehicle into LPG hydrogen."

[Retrieved July 15, 2009]

❖ **ASE Medium/heavy truck tests: study guide**

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=6650

"This webpage provides learning resource materials in preparation for a specialist on medium/heavy truck mechanic."

[Retrieved July 14, 2009]

❖ **ASE: parts specialist study guide(pdf)**

http://www.ase.com/Content/NavigationMenu/ASE_Resource_Center1/Forms_Publications/Study_Guides_and_Booklets.htm

"This webpage provides learning resource materials that focuses only on parts specialist such as medium/heavy duty truck dealership parts; automobile parts; medium/heavy duty truck aftermarket brake parts; general motor parts; and medium/heavy aftermarket suspension steering parts."

[Retrieved Jul 14, 2009]

❖ **ASE: school bus tests study guide**

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=6656

"This webpage provides learning resource materials for school bus specialist and discusses the following: body system and special equipment, diesel engines; drive train; brakes; suspension & steering; electrical /electronics system and the air conditioning systems & controls."

[Retrieved July 14, 2009]

❖ **ASE truck equipment tests: study guide**

http://www.ase.com/AMTemplate.cfm?Section=Test_Catalogs&Template=/ContentManagement/ContentDisplay.cfm&ContentID=6653

"This webpage provides learning resource materials for truck equipment installation & repair; electrical /electronic system installation & repair and auxiliary power systems installation and repair and tips on how to become a truck equipment specialist/mechanic."

[Retrieved July 14, 2009]

❖ **Cryogenic treatment of automotive parts**

<http://www.sigmaautomotive.com/cryogenics/portal.php>

"This webpage provides learning resource material in accessorizing the alternative fuel, lighting, and performance and safety measures."

[Retrieved July 13, 2009]

❖ **Free eBook download c2008;manuals books ,tutorial, service manual**

<http://www.ebooksquad.com/category/automotive>

"This webpage offers free downloadable eBook, which pertains to service manuals of various brands of automobile."

[Retrieved July 06, 2009]

❖ **How cars work: an interactive tool to learn about your car and its parts**

<http://www.jiffylube.com/education/howcarswork/howcarswork.aspx>

"This webpage is an interactive learning resource on starting a car, powering and driving techniques. Details on its modules were fully discussed."

[Retrieved July 14, 2009]

❖ **How to find a good repair shop video features**

Automotive Servicing NC IV

Core Competencies:

- Service Diesel Engine Management System
- Service Electronic Body Management System
- Service Diesel Fuel Injection System Components
- Service Electronic Drive Management System
- Service Emission Control System
- Service and repair electronically controlled anti-lock braking system
- Service and repair electronically operated traction control System
- Service and repair electronically operated stability control System
- Plan assessment activities and processes
- Manage facility and inventory requirements
- Estimate complex jobs
- Ensure a safe workplace
- Implement continuous improvement
- Manage people performance
- Plan and manage compliance with environmental regulations in a workplace or business

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http://www.ase.com/Template.cfm?Section=Media_Center&CONTENTID=6921&TEMPLATE=/ContentManagement/ContentDisplay.cfm

"This webpage features learning resource materials which are composed of one to three minutes video segments, and discusses the process of looking for a good repair shop for your automobile."

[Retrieved Jul 14, 2009]

❖ Low pressure carburizing for transmissions

<http://www.gearsolutions.com/article/detail/5911/low-pressure-carburizing-for-transmissions>

"This webpage provides information for low- and high pressure gas quenching technology for transmissions."

[Retrieved Jul 13, 2009]

❖ New technology delivers quality improvements for gas carburizing processes

<http://www.sigmaautomotive.com/cryogenics/portal.php>

"This learning resource materials webpage describes the quality of products in the modern production of automobiles and aircrafts."

❖ [Retrieved July 13, 2009]

❖ Driving books

www.drivinglessonsfinder.co.uk/driving-books.php

"This webpage contains information on several learning resources which varies on the several theories and practical driving techniques and strategies."

[Retrieved June 02, 2009]

❖ Driving test, driving lessons free online

<http://www.driving-test-success.com/index.html>

"This webpage covers the information on the different strategies and techniques on passing the driving assessment/test. It includes the top driving school directory for searching the best driving school."

[Retrieved June 02, 2009]

❖ How many driving lessons will I need

<http://www.johnfoote.co.uk/> "

"This website provides a complete guide on intensive driving which contains the book online, choosing instructors, clutch and how it works, code of practice, data protection act, driving courses available and test changes and the driving holidays."

[Retrieved June 02, 2009]

❖ Melting casting processes

http://thelibraryofmanufacturing.com/metalcasting_operation.html

"This website of learning resource materials describes the overview, process, steps in casting;."

[Retrieved July 13, 2009]

❖ Metal casting made easy: a complete guide for the hobby metal caster

<http://docs7.chomikuj.pl/2579203158,PL,0,0,Metalworking---Metal-Casting-Made-Easy---3-Volumes.pdf>

"This webpage features a learning resource material that discusses the selection of scrap aluminum and 'how to melt metals.'"

[Retrieved July 13, 2009]

❖ Metal casting [reference book for my4130]

<http://www.sut.ac.th/engineering/metal/pdf/metalcasting.pdf>

"This webpage contains learning resource materials that discusses the processes, designing, and the production."

[Retrieved July 13, 2009]

❖ Patternmaking & Foundry

http://www.frederickspassage.com/new_frederickspassage_011.htm

"This webpage of patternmaking index, the patternmaking & foundry yard two principles of arts comprising the metal industry."

Driving NC II

Core Competencies:

- Carry Out Minor Vehicle Maintenance and Servicing
- Drive Light Vehicle
- Obey and Observe Traffic Rules and Regulations
- Implement and Coordinate Accident-Emergency Procedures

Foundry Melting/ Casting NC II

Core Competencies:

- Operate Melting Furnaces (Non Electric)
- Operate Cupola Melting Furnaces
- Operate Electric Induction Melting Furnaces
- Fettle and Trim Metal Castings/Forgings
- Perform Refractory Installation and Repair
- Use and Maintain Measuring Instrument

Foundry Melting/ Casting NC III

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Core Competencies:

- Melt Aluminum-Silicon Alloys for Safety Tested Castings
- Melt Metals Using Coreless Induction Furnace
- Melt Automotive Gray Iron Castings in Cupola

Foundry Molding NC II

Core Competencies:

- Prepare & Mix Sand for Metal Molding and Coremaking
- Produce Molds by Hand (Jobbing)
- Produce Cores by Hand (Jobbing)
- Operate Sand Molding Machines
- Operate Sand Core Making Machines
- Pour Molten Metal to Molds
- Use and Maintain Measuring Instrument

Foundry Molding NC III

Core Competencies:

- Prepare Sand Mixture for Heavy Casting
- Perform Hand Molding To Produce Heavy Castings
- Pour Molten Metal to Heavy Castings

Foundry Patternmaking NC II

Core Competencies:

- Develop and Manufacture Wood Patterns
- Develop and Manufacture Polymer Patterns
- Develop and Manufacture Assembled Plated Patterns
- Develop and Manufacture

[Retrieved July 16, 2009]

❖ A sand casting manual for small foundry

http://books.google.com.ph/books/about/Metal_Casting.html?id=3O5kqZww24gC&redir_esc=y

"This webpage contains two volumes and 352 pages of information on sand casting for small foundry with clickable photos and module with step by steps explanation of the process."

[Retrieved July 16, 2009]

❖ General comparison of foundry molding process

http://www.genfoundry.com/docs/gfsc_decisionmatrix.pdf.

"This webpage contains a document comparing the different processes of foundry molding."

[Retrieved July 16, 2009]

❖ Foundry

<http://en.wikipedia.org/wiki/Foundry>

"This webpage contains an article on foundry factories that make casting of metals. It discusses the process, advantages and the steps such as melting, mold making, pouring, shakeout, degating, surface cleaning and finishing."

[Retrieved July 16, 2009]

❖ Layout of the foundation of foundry molding machines

<http://www.springerlink.com/institutional->

"This webpage contains an article for a learning resource material for foundry molding machines, its an full text preview."

[Retrieved July 21, 2009]

❖ Frederick passage

<http://www.frederickspassage.com/index.html>

"This webpage is designed for backyard foundry enthusiasts."

[Retrieved July 16, 2009]

❖ Metal injection molding[MIM]

http://www.alberox.com/mim.htm?qclid=CMDNt_3E5ZsCFUwwpAodJH135g

"This webpage describes its important; applications and the availability of materials needed. The downloadable brochures are design guides of MIM complex geometry for small parts and core technologies/capabilities in ceramic injection molding."

[Retrieved July 21, 2009]

❖ Metal injection molding (MIM) design guide

http://www.alberox.com/MIM_design_guide.pdf

"This webpage contains learning resource materials that provides the profiles of Morgan advanced ceramics; the design process; guidelines and illustrations of its process."

[Retrieved July 21, 2009]

❖ A sand casting manual for small foundry

<http://stephenchastain.com/book6.htm>

"This webpage contains two volumes and 352 pages with clickable photos and modules with step by steps explanation of sand casting."

[Retrieved July 16, 2009]

❖ Frederick passage

<http://www.frederickspassage.com/index.html>

"This website is designed for the foundry enthusiast to establish at his backyard'.

[Retrieved July 16, 2009]

❖ Patternmaking & Foundry

http://www.frederickspassage.com/new_frederickspassage_011.htm

"This webpage provides information on patternmaking index, the patternmaking & foundry yard two principles of arts comprising the metal industry."

[Retrieved July 16, 2009]

INTERNET RESOURCES

Production Patterns

- Performs General Woodworking Machine Operations
- Use and Maintain Measuring Instrument

Foundry Patternmaking NC III

Core Competencies:

- Manufacture and Develop Corebox for Shell Core Sand
- Develop And Manufacture Gear, Conveyor Screw And Propeller Patterns
- Develop Gravity Die Casting Mold

Heat Treatment NC II

Core Competencies:

- Select Heat Treatment Process
- Perform Heat Treatment Process

❖ A sand casting manual for small foundry

<http://stephenchastain.com/book6.htm>

"This webpage contains two volumes and 352 pages with clickable photos and modules with step by steps explanation of sand casting."

[Retrieved July 16, 2009]

❖ Kohler generators engine service manual

<http://stephenchastain.com/book6.htm>

"This webpage contains 110 pages of learning resource materials that describes both the industrial and marine generators on the operation, adjustment and the complete tear down and rebuild of the generator."

[Retrieved July 16, 2009]

❖ Force technology contributes with knowledge about heat treatment of aluminum

http://www.forcetechnology.com/en/Header/News/NewsArchive/2006/September/060906_bandoalufeatureday.htm

"This webpage contains a document of learning resource material that features usage, machining and surface treatment of aluminum."

[Retrieved July 20, 2009]

❖ Heat treatment

http://findarticles.com/p/articles/mi_qa3618/is_200404/ai_n9397482/

"This webpage contains a learning resource material that discusses the definitions, process of heat treatment."

[Retrieved July 20, 2009]

❖ Heat treatment database

<http://www.werkstofftechnik.com/english/software/navimat.php?&id=soft&subld=stw&gclid=CLvWzpxN45sCFU8wp>

"This webpage contains learning resource materials with data records which provides information for heat treatment materials, designs and other interested fields of science, quality and standardization on heat treatment."

[Retrieved July 20, 2009]

❖ Heat treatments: introduction

<http://www.google.com.ph/search?hl=tl&q=heat+treatment+process&meta=&aq=1&oq=he>

"This webpage contains learning resource materials that discusses the definitions and the reasons why steel are heat treated; and free access of featured publications are also available which are related to your needs. Example are quality magazines, world pumps; reinforced plastics and wind systems."

[Retrieved July 21, 2009]

❖ Mechanical biological and mechanical heat treatment(MBT and MHT) fact sheet 5

<http://www.google.com.ph/search?q=heat+treatment+process&hl=tl&start=70&sa=N>

"This webpage contains a document of learning resource material that describes the processes w/c involves mechanical(separation) and thermal(heat) treatment of waste."

[Retrieved July 20, 2009]

❖ Smarter heat treatment & ams2570d

<http://heattreat.eurotherm.com/tag/cqi-9/>

"this webpage contains learning resource workshop series searching the requirements to meet the standard of CQ1-9(Automotive heat treatment standard)."

[Retrieved Jul 13, 2009]

INTERNET RESOURCES

Laboratory Metrology/Calibration Services NC II

Core Competencies:

- Perform Engineering Measurement
- Perform Precision Mechanical Measurement
- Calibrate Measuring Equipment

Laboratory Metrology/Calibration Services NC III

Core Competencies:

- Use Comparison and Basic Measuring Devices
- Measure Components Using Coordinate Measuring Machines
- Use Graphical Techniques and Perform Simple Statistical Computations

Motorcycles/Small Engine Servicing NC II

Core Competencies:

- Service motorcycle/small engine system
- Service Electrical System
- Service Chassis
- Overhaul Motorcycle/Small Engine

Process inspection NC II

Core Competencies:

- Select and Control Inspection Processes and Procedures
- Perform Inspection
- Perform Basic Statistical Quality Control
- Use Improvement Processes in Team Activities

Process inspection NC III

Core Competencies:

- Apply quality systems
- Conduct product and/or process capability studies
- Maintain/supervise the application of quality procedures

❖ **All your testing and calibration need are met by laboratory services**
<http://www.consumersenergy.com/labservices/index.asp?SSID=69>
"This webpage contains learning resource material for laboratory services that describes the source of calibration services such as inspection and the operation, A printable version is also available."
[Retrieved Jul 13, 2009]

❖ **Calibration and repair services**
http://www.lacotech.com/Calibration_Repair_and_Rental_Services.html
"This webpage contains learning resources by LACO technologies, thru each manual on every technology. It describes all calibration and re-calibration service."
[Retrieved July 13, 2009]

❖ **Calibration system certificate**
<http://www.mitutoyo.co.jp/eng/technology/quality/pdf/kose.pdf>
"This webpage contains five(5) pages of learning resource materials that provides the standards procedures, policies, process and scope of service in conducting a laboratory metrology and calibration services."
[Retrieved July 21, 2009]

❖ **Test and measurement equipment repair and calibration**
http://dir.yahoo.com/Business_and_Economy/Business_to_Business/Electronics/
"This webpage contains a directory of an ISO-17025 A2La calibration, offered various calibration services, profiles and manuals of its laboratory discusses services offered."
[Retrieved July 13, 2009]

❖ **10 maintenance tasks to do yourself**
<http://www.visordown.com/motorcycle-top-10s/10-maintenance-tasks-to-do-yourself/15834.html>
"This webpage describes various methods in maintaining motorcycles."
[Retrieved April 28, 2014]

❖ **How to overhaul a motorcycle engine**
http://wiki.answers.com/Q/How_do_you_overhaul_motorcycle_engine
"This webpage presents solutions and decisions related to motorcycle engine overhauling."
[Retrieved April 28, 2014]

❖ **Complete inspection process**
<http://it.toolbox.com/blogs/enterprise-solutions/complete-inspection-process-13739>
"This webpage contains a document that describes the step by step process of inspection for more detailing of the system flow."
[Retrieved July 20, 2009]

❖ **In-line process - inspection**
http://findarticles.com/p/articles/mi_qa3618/is_200404/ai_n9397482/
"This webpage contains learning resource materials on automated in-line process inspection for a best quality of a finished product and the fastest time and economic benefits gain."
[Retrieved July 20, 2009]

❖ **Innovative business vehicle inspection bureau: an automotive consumer advocate**
<http://www.prweb.com/releases/consumer/automotive/prweb553659.htm>
"This webpage contains a press release to protect the automotive consumer and cut financial constraints; avoid stressful situation and automotive scams."
[Retrieved July 14, 2009]

❖ **In process inspection : SAE As9100 QMS-014**
<http://www.stvrainmfg.com/AS-QMS-014%20In%20Process%20Inspection.pdf>

INTERNET RESOURCES

Tinsmithing (Automotive Manufacturing) NC II

Core Competencies:

- Weld and Braze Automotive Body Shell
- Perform Tinsmith Operation

"This webpage contains eight (8) page of learning resource materials that describes the required in process inspection on customer products."
[Retrieved July 14, 2009]

❖ 2008 report on environmental protection efforts

http://www.jama.ca/pubs/2009/env_prot_report/index.asp

"This webpage features an annual report in promoting sustainability in road transport" reducing CO2 emissions in the global road transport sector 2008; this article serve the best learning resource material"

[Retrieved July 20, 2009]

❖ Automotive design & production

http://findarticles.com/p/articles/mi_m0FWH/

"This webpage contains an article providing coverage and analysis of the automotive business engineering, and manufacturing industries."

[Retrieved July 20, 2009]

❖ Automotive industry from Wikipedia encyclopedia

http://en.wikipedia.org/wiki/Automotive_industry

"This webpage provides an overview profile of countries with successful automotive industry with downloadable resource materials."

[Retrieved July 20, 2009]

❖ Automotive Manufacturing Solutions magazines July/August 10th anniversary issue

<http://www.automotivemanufacturingsolutions.com/Article.aspx?aid=124>

"This webpage contains a free subscription of periodical article on changes in production territories; vehicle model and manufacturing technology advances."

[Retrieved July 20, 2009]

❖ Digital manufacturing for automotive

http://www.plm.automation.siemens.com/en_us/Images/tecnomatix%20automotive%20supplier%20digital%20mfg%20wp%20W%202_tcm53-24343.pdf

"This webpage contains a document with seven (7) pages of learning resource materials. It discusses the difference between digital manufacturing and auto business predictability."

[Retrieved July 20, 2009]

❖ General resources web links: field guide to automotive technology

http://www.autofieldguide.com/dp/WebLinks/WebLinks_Result.cfm?Mag=PROD&Cat=83%20%20%20

"This webpage features automotive design that might be needed on our research work and future needs."

[Retrieved July 20, 2009]