

Automotive Skills Development Council



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR AUTOMOTIVE INDUSTRY

What are **Occupational** Standards (OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Contents

	1.	Introduction and ContactsP.1
1	2.	Qualifications PackP.2
	3.	Glossary of Key TermsP.4
	4.	NOS UnitsP.6

Introduction

Qualifications Pack-Product Conceptualization Manager

SECTOR: AUTOMOTIVE

SUB-SECTOR: RESEARCH & DEVELOPMENT

OCCUPATION: PRODUCT CONCEPTUALIZATION

JOB ROLE: PRODUCT CONCEPTUALIZATION MANAGER

REFERENCE ID: ASC/Q5103

Product Conceptualization Manager: Product Conceptualization Manager is responsible for idea generation, collecting data for performing sensitivity, trend, economic etc. analysis; collating information for conducting internal and external benchmarking, creation of SQFD, understanding regulatory environment and assimilation of Cross Functional Teams

Brief Job Description: Is responsible for conceiving of the idea as per the designated timelines, ensure understanding the customer needs in consultation with the marketing department, CFT and further using various parameters to ensure it is in direct correlation with customer needs. The role is further responsible for ensuring that external/internal benchmarking is conducted, creation of SQFD (Simplified Quality Function Definition) and formation of cross functional teams etc. Manage the team of product conceptualization engineers and train them on various product conceptualization activities are also part of this role

Personal Attributes: The individual should have ability to co-relate technical knowledge with and material, cost, time estimates for different reports and design specifications, Marketing -Product SOR (statement of requirements). Ability to apply different operational parameters/ principles to resolve engineering problems and finding appropriate solutions. The individual should further have customer orientation, market awareness, out of box thinking, problem solving, analytical skills, latest technologies knowledge, ability to visualize the final product, team management, decision making, proactive ness, strategic orientation etc.





Qualifications Pack Code	ASC/Q5102		
Job Role	Product Conceptualiza	ation Manager	
Credits(NSQF)	TBD	Version number	1
Industry	Automotive	Drafted on	10/1/2014
Sub-sector	R&D	Last reviewed on	20/1/2014
Occupation	Product Conceptualization	Next review date	20/1/2016

Role Description This role is responsible for idea generation, collecting data for performing sensitivity, trend, economic etc. analysis; collating information for conducting internal and external benchmarking, creation of SQFD, understanding regulatory environment and assimilation of Cross Functional Teams NVEQF/NVQF level Minimum Educational Qualifications Maximum Educational Qualifications Training (Suggested but not mandatory) Training (Suggested but not mandatory) This role is responsible for idea generation, collecting data for performing sensitivity, trend, economic etc. analysis of the performance of SQFD, understanding regulatory environmental reams Training (Suggested but not mandatory) Finance & Costing Project Management Experience 8-10 years in R&D automobile product conceptualization	Job Role	Product Conceptualization Manager
Minimum Educational Qualifications Maximum Educational Qualifications M.E./ M. Tech (Preferably automobile/ mechanical/ electronics/ electrical engineering) B.E. + M.E.	Role Description	performing sensitivity, trend, economic etc. analysis; collating information for conducting internal and external benchmarking, creation of SQFD, understanding regulatory
Minimum Educational Qualifications electrical engineering)	NVEQF/NVQF level	7
 Maximum Educational Qualifications B.E + MBA (Operations) Effective Data Collection for market, economic, trend analysis Economic, regulatory & environmental scenarios as applicable Problem solving techniques Team Management Finance & Costing Project Management 	Minimum Educational Qualifications	
Training (Suggested but not mandatory) analysis Economic, regulatory & environmental scenarios as applicable Problem solving techniques Team Management Finance & Costing Project Management	Maximum Educational Qualifications	electronics/ electrical engineering)
Experience 8-10 years in R&D automobile product conceptualization		 analysis Economic, regulatory & environmental scenarios as applicable Problem solving techniques Team Management Finance & Costing
	Experience	8-10 years in R&D automobile product conceptualization
analytical and decision making tools, conducting analysis and ensuring all types of compliance ASC/N0019: Managing the project delivery as a team lead within the cross functional team ASC/N0020: Managing team on a day to day basis	Occupational Standards (OS)	ASC/N0019: Managing the project delivery as a team lead within the cross functional team ASC/N0020: Managing team on a day to day basis ASC/ N0006D: Maintain a safe and healthy working
Performance Criteria As described in the relevant NOS units	Performance Criteria	As described in the relevant NOS units





Keywords /Terms	Description
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the NOS, these include
Function	communication related skills that are applicable to most job roles. Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of NOS.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Organisational Context	Organisational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
Qualifications Pack(QP)	Qualifications Pack comprises the set of NOS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.





Cula Calatan	Cub sector is devised from a further baselyles as becaute at the
Sub-Sector	Sub-sector is derived from a further breakdown based on the
	characteristics and interests of its components.
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the
	objectives of the function.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish
	specific designated responsibilities.
Unit Code	Unit Code is a unique identifier for a NOS unit, which can be denoted
	with an 'N'
Unit Title	Unit Title gives a clear overall statement about what the incumbent
	should be able to do.
Vertical	Vertical may exist within a sub-sector representing different domain
	areas or the client industries served by the industry.
Keywords /Terms	Description
NOS	National Occupational Standard(s)
NVEQF	National Vocational Education Qualifications Framework
NVQF	National Vocational Qualifications Framework
OEM	Original Equipment Manufacturer
OS	Occupational Standard(s)
QP	Qualifications Pack
5 S	Technique of maintaining orderliness –Japanese terminology
СР	Control Plan
WI	Work Instructions
SQFD	Simplified Quality Function Definition
CFT	Cross Functional Team
SOR	Statement of requirements







National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required to conceptualize the new product by using different analytical and decision making tools, conducting analysis and ensuring all types of compliance







Unit Code	ASC/N5106
Unit Title	Conceptualize the new product by using different analytical and decision making
(Task)	tools, conducting analysis and ensuring all types of compliance
Description	This NOS unit is about conceptualizing the new product with the support of different
	tools and analysis to ensure compliance
Scope	The product conceptualization manager will be responsible for:
	Understanding customer needs
	Conducting sensitivity analysis
	 Conducting external and internal benchmarking
	Development of the SQFD
	Conduct different trend analysis like economic, future, technology and
	research on alternative fuel
	Ensure compliance to all regulatory and environmental requirements
	The role holder will interact with different Centre of Excellence, different CFT's team,
	Sourcing Team, product design team, HR and Finance
Performance Criteria (F	PC) w.r.t. the Scope
Element	Performance Criteria
Understanding	PC1. Understand and determine the customer preferences
Customer Needs	PC2. Clarify understanding pertaining to specification, parameter, constraints on the
customer weeus	product design in consultation with the relevant stakeholders
	PC3. Understand the relationship between customer needs and satisfaction
	PC4. Develop a range of criteria against which to evaluate different options and ideas
	PC5. Conceptualize and develop the product on the basis of 'one dimensional
	attributes', 'indifferent attributes', 'attractive attributes and 'must be attributes'
	PC6. Seek both spoken and unspoken needs and translating into action and design
	PC7. Brainstorming in initial stages of idea generation
	PC8. Translating/ communicating the initial product idea to the product designer in
	order to design a product that is aesthetically pleasing, ergonomically friendly
	and appealing
Conducting	PC9. Select the parameters that need to be verified
sensitivity analysis	PC10. Identify the range of the parameters that is realistically possible
	PC11. Design and conduct experiment to check for sensitivity
	PC12. Summarize the results for further analysis
	PC13. Calculate values of sensitivity index for each of the parts PC14. Verify if the parts are within the sensitivity range
	PC15. In case, the results are not optimal, new parts need to be designed
Conduct external	PC16. Identify what parameters need to be benchmarked
	PC17. Understand the data shared by the marketing team on competitor analysis
benchmarking	PC18. Develop a plan for benchmarking
	PC19. Finalize on the data collection methodology and collect data
	PC20. Choose/ Finalize on the best in class organizations from which benchmarking
	need to be completed
	PC21. Analyse the external benchmarking data from demand-side perspective in order
	to determine if they satisfy the same set of customer needs and from supply-







	conducting analysis and ensuring all types of compliance
	side perspective to determine if the organization has the same resources and
	technology to meet these needs
	PC22. Analyse data on the product design of the organization in comparison to the
	competitor design
	PC23. Analyse parameters like 'feel', comfort, 'handling', efficiency, performance etc.
	PC24. Benchmark data against the technology being used by competitors
	PC25. Benchmark data against competitors working/focusing in the same market (for
	example, big vs. small car market)
	PC26. Analyse data pertaining to the competitive advantage of one organization and
	compare the same with the competitive advantage for own organization
	PC27. Create competitors response profile which captures possible future moves
0 - 1 - 1 - 1 - 1 - 1 - 1	PC28. Conduct SWOT, PESTLE analysis, market segmentation etc.
Conduct internal	PC29. Benchmark data against previous products design and performance undertaken
benchmarking	and analyse the same
	PC30. Analyse data on the technologies used previously in comparison to the current
	one
Collaborate with	PC31. Collaborate with the Cross Functional Team (CFT) with diverse knowledge for
CFT (Cross	design and fulfilment of customer needs
Functional Team)	PC32. Define the scope of work for the team along with Product Conceptualization
•	Head
	PC33. Define the time frame for completion of various activities being undertaken
	with the various CFT Teams and link the same with product conceptualization
	plan
	PC34. Define the method of assessment for evaluation of work completed by the CFT
	Team
Development of	PC35. Prepare of the SQFD through ensuring maximum satisfaction to the customer
the SQFD	by making sure that product design and contents are as per their wishes
(Simplified Quality	PC36. For the SQFD, analyse the revealed requirements (basic wants), expected
Function	/implied requirements (customer fail to mention but wants them), exciting
	/delight requirements (beyond customers' expectations)
Definition)	PC37. Determine and finalize what segments will be analysed during the process and
	identify who the customers are
	PC38. Identifying the technical attributes in the SQFD
	PC39. Classify and assign importance to the requirements of the customer on a scale
	of 1-5 of as applicable in the respective organization
	PC40. Creation of relationship matrix to determine the relationship between customer
	needs and the company's ability to meet those needs
	PC41. Incorporate technical analysis completed for competitors' products
	PC42. Establishment for target values for each of the technical descriptors/
	parameters
	PC43. Create a correlation matrix
	PC44. Eliminate any negative preferences and maximize only on the positive
	PC45. Complete the documentation on the regulatory requirements
	PC46. Understand which of the technical descriptors matters the most
Conduct future	
	PC47. Analyse the features currently being used in similar products by the company
trend analysis	itself as well as competitors
	PC48. Analyse the features that customers want/need as well as those that they







	conducting analysis and ensuring all types of compliance
	desire
	PC49. Understand data captured through qualitative surveys on customer needs and
	desires
	PC50. Understand data captured through quantitative surveys on customer needs and
	desires
	PC51. Analyse to see the potential production and costs of those new features to see
	economic viability
	PC52. Analyse the sensitivity to change, structural viability and if the features meet
	emission, safety and other requirements
Conduct economic	PC53. Check the current economic trends and if the customer has the willingness to
trend analysis	pay for the product
·	PC54. Develop an approximate cost of the new product given the current and future economic trends
	PC55. Benchmark the cost of conceptualization and production of current products to
	the predicted economic trends while making the potential product
	PC56. Analyse the fuel cost, mileage parameters, maintenance cost etc.
	PC57. Analysis the different government policies, auto sector methods and export and
	import parameters
	PC58. Generate a report to see if the potential customers can afford the product
	PC59. Analyse macroeconomic policy, spending reports, key metrics such as cost of
	fuel etc.
Conduct	PC60. Analyse the current technology that is in use in the industry, internally by the
technology trend	company and by competition
analysis and	PC61. Analyse the future predicted technology to be used
research on	PC62. Narrow down the type of technology that is the most beneficial
	PC63. Develop a cost benefit analysis of the technology to be used with the help of
alternative fuel	the manager
	PC64. Decide whether to deploy the technology presently, to keep in the bench from
	a commercial viability point of view
	PC65. Coordinate on aspects related to different technology/ alternative fuels/ new
	regulations with other nodal agency/ ministries
Ensure compliance	PC66. Understand and analyse the current environmental and governmental
to all regulatory	regulations in terms of type of vehicles, size and its segment, utility etc.
and ,	PC67. Check to see if the potential product will meet the environmental and
environmental	government regulations (regulations of both local and global standards)
	PC68. Display understanding and orientation towards internal company regulations
requirements	and if the product meets those
	PC69. Display understanding and ensure if the emission regulations of the country and
	globally to see if the product meets those
	PC70. Display understanding and ensure if the safety regulations of the country and
	globally to see if the product meets those
	PC71. Check to see the product is not utilizing a patent of some other organization
	PC72. Benchmark the regulations that are already in place to the ones predicted for
	the future to make sure the product will be meeting both requirements
Knowledge and Unders	standing (K) w.r.t. the scope
Element	Knowledge and Understanding







A. Organisational	The user/individual on the job needs to know and understand:
Context	KA1. relevant manufacturing standards and procedures followed in the company
(Knowledge of the	KA2. different types of products manufactured by the company
Company/	KA3. organization methodology on conducting marketing data analysis,
Organisation and	benchmarking,
its processes)	KA4. quality norms and standards prescribed in the Quality Manual by the
	organization
	KA5. 5S and Safety norms practiced in the organization
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. basic working of automobiles
	KB2. ability to collect data and conduct basic level analysis such as sensitivity,
	competitor etc. basis the technical parameters that are defined
	KB3. basic fundamentals of machines and mechanics
	KB4. application of relevant principles of functionality, ergonomics, aesthetics etc.
	KB5. ability to consider relevant social, economic environmental, sustainable,
	ethical and cultural issues that may impact in design solutions
	KB6. ability to conduct SWOT, PESTLE analysis
	KB7. ability to use different data analytics tools
	KB8. latest technologies in auto industry
	KB9. latest regulations in auto industry
	KB10. conduct different financial and macroeconomics analysis
	KB11. basic Arithmetic and calculation methods for tolerance limits
	KB12. metallurgical properties of metals used for different processes
	KB13. the methods of using instruments like Vernier callipers,
	Micrometres, rulers and other inspection tools
	KB14. how to read and interpret sketches and engineering drawings
	KB15. how to visually represent the final product output and hence
	decide on the key steps to be followed

Skills (S) w.r.t. the scope

SK	Skills (5) w.r.t. the scope			
Element		Skills		
A.	Core Skills/	Writing skills and reading Skills		
	Generic Skills	The user/individual on the job needs to know and understand how to:		
		SA1. document information from the manuals, discussion notes, process charts etc.		
		SA2. create small notes/ work documents/ diagrams for operators and helpers to help them understand the process		
		SA3. write inter departmental notes/ memos or make suitable entries in the online system		
		SA4. read equipment manuals and process documents to understand the equipment and processes better		
		SA5. read internal information memos sent by internal customers (other functions within the organization)		
Oral Communication (Listening and Speaking skills)				
		The user/individual on the job needs to know and understand how to:		
		SA6. discuss task lists, schedules, and work-loads with the team members		
		SA7. answer the queries raised by the team as well as intercompany departments		
		SA8. attentively listen with full attention the queries and grievances raised by the		







	conducting analysis and ensuring all types of compliance
	team and comprehend the information given by the speaker
B. Professional Skills	Analytical thinking
	The user/individual on the job needs to know and understand how to:
	SB1. break the problem into smaller issues and tasks to arrive at a solution
	SB2. understand inter process relationship and establish relationship between
	various parts of the problem
	SB3. leverage experience to find effective solutions to problems
	SB4. use organizations analytical tools to arrive at solutions
	Plan and Organise
	The user/individual on the job needs to know and understand how to:
	SB5. plan, organize and prioritize the work with Engineering /R & D, Marketing department
	SB6. plan support required from CFT /project teams for benchmarking ,testing, feasibility exercises
	SB7. organize information, standards manuals etc. so that sorting becomes easy SB8. reorganize resources in case of change of plans
	Judgment and Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB9. use common sense and make judgments during day to day basis
	SB10. use reasoning skills to identify and resolve problems
	SB11. use intuition to detect any potential problems which could arise during
	operations
	Ownership
	The user/individual on the job needs to know and understand how to:
	SB12. accept additional responsibility for self and the team
	SB13. encourage self and other to take greater responsibilities
	SB14. ensure that the work allocated to the team is completed as per timelines and
	quality norms
	SB15. identify obstacles and bottlenecks in the process and on own find basic level
	solutions for removing these obstacles
	Problem solving and decision making
	The user/individual on the job needs to know and understand how to:
	SB16. gather information skilfully from multiple sources
	SB17. analyse information in depth and identifies the problem in a timely manner
	SB18. develop alternate solutions and resolves problems in early stages
	SB19. work tireless in spite of repeat activities in a diligent manner to resolve
	problems on a day to day basis
	SB20. use previous experience in resolving problems and taking decisions
	SB21. make timely and independent decisions within the boundaries of the
	delegation matrix of the organization
	Initiative taking
	The user/ individual on the job needs to know and understand how to
	SB22. clearly establish a goal for self or others to accomplish
	SB23. without instructions from the manager, self-manage the work







tonducting analysis and crisaring an types of compnance
SB24. take additional responsibilities to make sure that the work is completed on
time
Customer Orientation
The user/ individual on the job needs to know and understand how to
SB25. identify the needs of the customer
SB26. ensure that the product designed meets the expectation of the customer
SB27. understands importance of customer feedback and drives customer focus
Out of Box thinking
The user/ individual on the job needs to know and understand how to:
SB28. familiarise with leading practices available in the market
SB29. think independently on new approaches to manufacturing process, material
management, data management and team management
SB30. represent any new ideas/ approaches on process improvement and
productivity improvement to the seniors in the team
Team work and collaboration
The user/individual on the job needs to know and understand how to:
SB31. contribute to building a positive team spirit
SB32. identify individual strengths & maximize team performance
SB33. exhibit objectivity & openness to others' views
SB34. collaborate with stakeholders to achieve the desired state of final result

NOS Version Control

NOS Code	ASC/N5106		
Credits(NSQF)	TBD	Version number	1
Industry	Automotive	Drafted on	10/1/2014
Industry Sub-sector	R&D	Last reviewed on	20/1/2014
Occupation	Product Conceptualization	Next review date	20/1/2016







National Occupational Standard



Overview

This unit is about effective management of the project delivery within the cross functional team created for completion of the New Product Development







Unit Code	ASC /N0019 Managing the project delivery as a team lead within the cross functional tea		
Unit Title (Task)			
Description	This NOS unit is about handling the project management and project delivery activities within the R&D team such as managing team budgets and costs, institutionalizing process improvement, process excellence and quality management within the team and manage project timelines, project quality, team resourcing and management of stakeholders related to the Product Development project		
Scope	 The role holder will be responsible for: managing end to end project delivery activities within an R&D vertical including budgeting and costing for the team deploy procedures and processes to support the NPD delivery team managing the R&D team and motivate and engage them to increase the overall productivity of the team 		
Performance Criteria(PC) w.	r.t. the Scope		
Element	Performance Criteria		
Manage Costs and Budgets for the team	 PC1. Ensure timely creation of item wise/ head wise budget for the team on a year on year basis PC2. Ensure that all major and minor cost elements related to equipment, tools, raw material, manpower, consumables and marketing activities are considered during finalization of the budgets for the given financial period/ project delivery period PC3. Conduct effective negotiations along with the commercial team with suppliers and vendors during procurement of equipment, tools and raw material required for delivery of the new product PC4. Support the process wise R&D lead/ head in conducting periodic tracking of Planned Vs. Actual expenditure (Variance Analysis) for the team PC5. Act upon the outcomes of the variance analysis and keep the overall process/ product cost within the specified ranges PC6. Escalate any budgetary exigencies to process wise R&D Lead/ head in a timely manner so that the project delivery does not suffer because of 		

budgetary reasons







ASC/N0019: Managing the project delivery team as a team lead within the cross functional team				
	PC7. Ensure detailed self-understanding of all the requisite processes to be adopted for completing the development job PC8. Ensure drafting and finalizing of process manuals, Work Instructions, Control Plans, process flow charts to enable the team to easily			
	understand and implement the process			
	PC9. Ensure that Work Instructions/ Process steps are displayed in key areas			
	like test labs, CA/CAD centres etc.			
	PC10. Ensuring recording and reporting procedures and systems are in place and shared with the team members			
Process Excellence and	PC11. Ensure 5S implementation in the R&D function especially in data			
Process Improvement	management and data storage (Knowledge Management)			
	PC12. Identify areas of improvement in the existing processes/systems and take measures to adhere to the identified Kaizen/ process improvement			
	initiatives			
	PC13. Ensure team has understanding of basic analytical tools like Why Why analysis, brainstorming, 7 QC tools, TQM principles to analyse various			
	problems and design process improvement activities			
	PC14. Ensure that the development team regularly engages with the analytical tools during the various product development team			
	PC15. Implement various business excellence techniques like Kaizen, 5S			
	initiatives and safety interventions to enhance productivity of the team			
	PC16. Support the process wise R&D lead/ head in creating the project plan for			
	the individual product development team and ensure linkage with the			
	overall NPD plan of the organization			
	PC17. Identify critical areas/ activities which need detailed monitoring and			
	effective implementation to prevent any negative impact on the project			
	process			
	PC18. Ensure tracking of key activities and milestones given in the individual project plan			
	PC19. Support the process wise R&D lead/ head in monitoring of individual project timelines, work quality, development & delivery costs, team contribution and knowledge management activities			
	PC20. Support the process wise R&D lead/ head in creating time bound			
	mitigation plan to deal with project plan variances			
Project Delivery	PC21. Ensure timely setup of design centres, laboratories, testing beds as			
Management	required by the NPD delivery process mentioned in the overall project plan			
	PC22. In case new equipment/ procedures are required, ensure that the			
	responsible team is contacted well before the execution time in order to prevent delays in the development process			
	PC23. Create required project status reports and share the same the relevant			
	stakeholders in the format finalized by the Cross Functional Project Team			
	PC24. Manage stakeholder relationship and ensure closure of open items			
	needing feedback or approvals from the relevant stakeholders			
	PC25. Ensure effective collaboration and information sharing with other members of the cross functional NPD delivery team			
	PC26. Escalate any pertinent issues to the process wise R&D head which need			
	immediate attention			







PC27. Finalize along with the individual process head in the CFT, the manpower planning and manpower deployment for the delivery team PC28. Identify the competencies required for the project delivery team PC29. Ensure identification and deployment of right skilled people at the right places on the delivery process PC30. Track the performance of the team during the various stages of the project and provide timely feedback for course correction PC31. Share knowledge of processes, inputs and outputs with the team members to enhance their skill levels PC32. Other than technical trainings, support the team by delivering trainings related to quality and safety for the operators and helpers PC33. Drive a culture of creativity and innovation in the team by given the team members opportunity to think out of box and express their thoughts Knowledge and Understanding (K) A. Organizational Context (Knowledge of the company that is processes) The user/individual on the job needs to know and understand: KA1. different types of products manufactured by the company that is processes) KA2. overall RRD strategy for the organization KA3. knowledge of functional processes like Procurement, Store management, inventory management, quality management, HR and key contact points for query resolution KA4. 5S and Safety norms practiced in the organization KA5. project management techniques and usage of different project management to slike primavera, MS Office etc. KB2. various problems solving tools like 7QC, Why -Why Analysis, Brain storming etc. KB3. fundamental of financial and budgeting process KB4. different type of tools , processes and infrastructure required for the development process KB5. different type of communication channels practiced by the organization them with the concerned in the required format how to share feedback with team members KB6. various data entry tools and formats used in the organization them with the concerned in the required format how to share feedback with team members WB8. billity to visuali	ASC/NOO19: Managing th	e project delivery team as a team lead within the cross functional team		
A. Organizational Context (Knowledge of the company / organization and its processes) B. Technical Knowledge Knowle		PC28. Identify the competencies required for the project delivery team PC29. Ensure identification and deployment of right skilled people at the right places on the delivery process PC30. Track the performance of the team during the various stages of the project and provide timely feedback for course correction PC31. Share knowledge of processes, inputs and outputs with the team members to enhance their skill levels PC32. Other than technical trainings, support the team by delivering trainings related to quality and safety for the operators and helpers PC33. Drive a culture of creativity and innovation in the team by given the team		
Context (Knowledge of the company / organization and its processes) KA1. different types of products manufactured by the company (KA2. overall R&D strategy for the organization (KA3. knowledge of functional processes like Procurement, Store management, inventory management, quality management, HR and key contact points for query resolution (KA4. SS and Safety norms practiced in the organization) B. Technical Knowledge KB1. project management techniques and usage of different project management tools like primavera, MS Office etc. KB2. various problems solving tools like 7QC, Why -Why Analysis, Brain storming etc. KB3. fundamental of financial and budgeting process KB4. different type of tools , processes and infrastructure required for the development process KB5. different types of communication channels practiced by the organization KB6. the method of noting observations, maintaining records and sharing them with the concerned in the required format how to share feedback with team members KB7. various data entry tools and formats used in the organization KB8. ability to visualize the final product output and hence decide on the key steps and parameters to be followed KB9. usage of various business correspondence tools like Email, MS Office tools (Word, Excel, Power Point), ERP tools etc. KB10. about the various hazards related to various chemicals, load, power , heat sources/ tools as used in the processes, the hazards involved in the process operations and usage of PPEs	Knowledge and Understan	ding (K)		
Knowledge KB1. project management techniques and usage of different project management tools like primavera, MS Office etc. KB2. various problems solving tools like 7QC, Why -Why Analysis, Brain storming etc. KB3. fundamental of financial and budgeting process KB4. different type of tools, processes and infrastructure required for the development process KB5. different types of communication channels practiced by the organization the method of noting observations, maintaining records and sharing them with the concerned in the required format how to share feedback with team members KB7. various data entry tools and formats used in the organization KB8. ability to visualize the final product output and hence decide on the key steps and parameters to be followed KB9. usage of various business correspondence tools like Email, MS Office tools (Word, Excel, Power Point), ERP tools etc. KB10. about the various hazards related to various chemicals, load, power, heat sources/ tools as used in the processes, the hazards involved in the process operations and usage of PPEs Skills (s) [optional]	Context (Knowledge of the company / organization and its	 KA1. different types of products manufactured by the company KA2. overall R&D strategy for the organization KA3. knowledge of functional processes like Procurement, Store management, inventory management, quality management, HR and key contact points for query resolution 		
	Knowledge	 KB1. project management techniques and usage of different project management tools like primavera, MS Office etc. KB2. various problems solving tools like 7QC, Why -Why Analysis, Brain storming etc. KB3. fundamental of financial and budgeting process KB4. different type of tools, processes and infrastructure required for the development process KB5. different types of communication channels practiced by the organization KB6. the method of noting observations, maintaining records and sharing them with the concerned in the required format how to share feedback with team members KB7. various data entry tools and formats used in the organization KB8. ability to visualize the final product output and hence decide on the key steps and parameters to be followed KB9. usage of various business correspondence tools like Email, MS Office tools (Word, Excel, Power Point), ERP tools etc. KB10. about the various hazards related to various chemicals, load, power, heat sources/ tools as used in the processes, the hazards involved in the 		
C. Core Skills/ Generic Writing and reading skills				
	C. Core Skills/ Generic	Writing and reading skills		







ASC/N0019: Managing the project delivery team as a team lead within the cross functional team					
Skills	The user/ individual on the job needs to know and understand how to:				
	SA1. document information from the manuals, discussion notes, process				
	charts etc.				
	. create small notes/ work documents/ diagrams for team members to				
	help them understand the process				
	SA3. use emails and other business correspondence methods (internal				
	memos, circular etc.) for communicating with other team members/				
	vendors/ suppliers etc.				
	SA4. read internal information memos send by internal customers (other				
	functions within the organization)				
	The state of the s				
	SA5. articulate the thoughts in one's mind into the written format and				
	communicate with the team members				
	Oral Communication (Listening and Speaking skills)				
	The user/individual on the job needs to knowand understand how to:				
	SA6. discuss task lists, schedules, and work-loads with the operative team				
	members				
	SA7. answer the queries raised by team as well as intercompany departments				
	SA8. articulate the thoughts in one's mind into the written format and				
	communicate with the team members				
	SA9. effectively communicate with the team members and make them				
	aware of work expectations, targets, policies, processes etc.				
	SA10. attentively listen with full attention the queries and grievances raised by				
	the team and comprehend the information given by the speaker				
D. Professional Skills	People Development				
	The user/individual on the job needs to know and understand how to:				
	SB1. identify the strengths and weaknesses of the subordinate team				
	members				
	SB2. provide constructive and genuine feedback				
	SB3. motivate the team to take independently responsibilities in their work				
	areas				
	SB4. provide training to team members for technical and behavioural areas SB5. create a culture of innovation and out of box thinking/ risk taken				
	SB5. create a culture of innovation and out of box thinking/ risk taken Team Leadership				
	•				
	The user/individual on the job needs to know and understand how to:				
	SB6. communicate effectively to the team members				
	SB7. identify conflicts in the team and try to resolve them at the earliest				
	SB8. interact and engage with the team members on a day to day basis				
	SB9. counsel and coach the team members and help them resolve issues				
	SB10. timely highlight to the management about any good work/ achievement				
	by the team members				
	SB11. display empathy for the problems faced by the team and act on the				
	concerns				
	Analytical Thinking and Problem Solving				







The user/individual on the job needs to know and understand how to:

- SB12. break the problem into smaller issues and tasks to arrive at a solution
- SB13. understand inter process relationship and establish relationship between various parts of the problem
- SB14. leverage experience to find effective solutions to problems
- SB15. use basic analytical tools to arrive at solutions
- SB16. develop alternate solutions and resolves problems in early stages
- SB17. work tireless in spite of repeat activities in a diligent manner to resolve problems on a day to day basis
- SB18. collaborate with cross functional teams to resolve problems

Judgment and Critical Thinking

The user/individual on the job needs to know and understand how to:

- SB19. use common sense and make judgments during day to day basis
- SB20. use reasoning skills to identify and resolve problems
- SB21. use intuition to detect any potential problems which could arise during operations
- SB22. critically analyse solutions/ recommendations shared by operatives and supervisors for implementation gather information skilfully from multiple sources
- SB23. analyse information in depth and identifies the problem in a timely manner

Ownership

The user/individual on the job needs to know and understand how to:

- SB24. accept additional responsibility for self and the team
- SB25. encourage self and other to take greater responsibilities
- SB26. ensure that the work allocated to the team is completed as per timelines and quality norms
- SB27. identify obstacles and bottlenecks in the process and on own find basic level solutions for removing these obstacles

Team Work

The user/individual on the job needs to know and understand how to:

- SB28. motivate and provide support for the team
- SB29. encourage collaboration between team members
- SB30. resolve team issues and grievances to manage conflicts within the team
- SB31. create an environment of approachability, trust and openness within the team
- SB32. ensure role clarity for all operators and helpers on the line/shift
- SB33. escalate any team related issues to the concerned person at the right time

Decision making

The user/individual on the job needs to know and understand how to:

- SB34. use previous experience in resolving problems and taking decisions
- SB35. make timely and independent decisions on the line/ shift within the boundaries of the delegation matrix of the organization

Collaboration

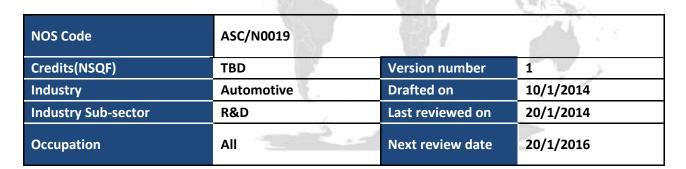






	The user/ individual on the job needs to know and understand how to:			
	SB36. exhibit objectivity & openness to others' views			
	SB37. collaborate with stakeholders to achieve the desired state of final			
	result			
	Out of Box thinking			
	The user/ individual on the job needs to know and understand how to:			
	SB38. familiarise with leading practices available in the market			
SB39. think independently on new approaches to manufacturing				
	material management, data management and team management			
	SB40. represent any new ideas/ approaches on process improvement and			
	productivity improvement to the seniors in the team			

NOS Version Control









National Occupational Standard



Overview

Managing team through employee engagement and communication







Unit Code	ASC /N0020			
Unit Title (Task)	Managing team on a day to day basis			
Description	This OS unit is about managing the team of on day to day basis, ensuring their deployment, motivating them by involving them in various engagement initiatives helping them improve the skills levels and managing their grievances in the best possible manner in order to maximize the people productivity			
Scope	 The person is responsible for ensuring Engaging the team through employee communication and employee engagement Finalizing manpower deployment Employee Performance Measurement and Employee Development Ensuring the proper culture and facilities for R&D 			

Performance Criteria(PC) w.r.t. the Scope

Element	Performance Criteria			
	 PC1. Ensure engineer and team are aware of the job expectations on a monthly/weekly/daily basis PC2. Involve engineer and team for the daily work meeting/brain storming sessions / staff meetings to communicate information intended for them 			
Engaging the team through employee	PC3. Ensure communication to team on any changes in policies/ processes by the organization through required verbal/ written mechanisms			
communication and employee engagement	PC4. Ensure participation of employees in various engagement initiatives organized at the engineering centre and other place by the organization			
	PC5. Involve engineer and team in TQM & Kaizen meets, Brainstorming sessions, safety drills etc. to increase their involvement in R&D operations			
	PC6. Escalate issues to concerned staff in case of any issue related to team management and engagement			
	PC7. Finalize along with the engineer the shift planning and manpower deployment for the month/week as per the proposed development plan			
Finalizing manpower deployment	PC8. Ensure that the engineer maintains the information on leaves share the information with the concerned as and when required			
	PC9. Ensure that the engineer identifies the skilled manpower for the process PC10. Ensure identification and deployment of right skilled people at the right			
	places			
	PC11. Ensure that the engineer tracks the daily performance of the team and note the achievement levels in an online IT enabled system			
Employee	PC12. Provide feedback to engineer pertaining to performance appraisals of team PC13. Ensure that the team is trained and are aware of the processes which need			
Performance Measurement and	to be followed			
Employee Development	PC14. Other than technical trainings, support the team by delivering trainings related to quality and safety for them			
,	PC15. Drive a culture of creativity and innovation in the team by given the team members opportunity to think out of box and express their thoughts			







ASC/NUUZU: Managing team on a day to day basis				
Ensuring the proper culture and facilities for R&D	PC16. Ensure that the engineer maintains a cordial and open culture in the team so that maximum new ideas are generated PC17. Ensure a culture of intelligent market benchmarking for different types of design and testing methodologies in the company PC18. Ensure development of effective design and test centres where different types of models could be build and tested to have maximum conversion of new ideas to product in a cost effective manner			
Knowledge and Unde	erstanding (K)			
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. relevant standards and procedures followed in the company KA2. different types of products manufactured by the company KA3. quality management practices of the organization			
B. Technical Knowledge	The user/individual on the job needs to know and understand: KA4. different types of R&D processes KA5. various grievance management tools available in the organization KA6. various problems solving tools like 7QC, Why Why Analysis, Brain storming KA7. different types of communication channels practiced by the organization KA8. the method of noting observations, maintaining records and sharing them with the concerned in the required format KA9. knowledge of shift roster norms and guidelines KA10. how and when to measure performance of the operators KA11. how to share feedback with team members			
Skills (S) [Optional]				
A. Core Skills/ Generic Skills	Writing and reading skills The user/ individual on the job needs to know and understand how to: SA1. document information from the manuals, discussion notes, process charts etc. SA2. create small notes/ work documents/ diagrams for operators and helpers to help them understand the process SA3. use emails and other business correspondence methods (internal memos, circular etc.) for communicating with other team members/ vendors/ suppliers etc. SA4. read internal information memos send by internal customers (other functions within the organization) Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. discuss task lists, schedules, and work-loads with the operative team members SA6. answer the queries raised by the operative team as well as intercompany departments SA7. effectively communicate with the operators and helpers and make them aware of work expectations, targets, policies, processes etc.			







	SA8. attentively listen with full attention the queries and grievances raised by the		
	operative team and comprehend the information given by the speaker		
B. Professional Skills	People Development		
D. Professional Skills	People Development		
	The user/individual on the job needs to know and understand how to:		
	SB1. identify the strengths and weaknesses of the subordinate team members (
	operators and helpers)		
	· · · · · · · · · · · · · · · · · · ·		
	SB2. provide constructive and genuine feedback		
	SB3. motivate the team to take independently responsibilities in their work areas		
	SB4. provide training to the operators and helpers for technical and behavioural		
	areas		
	Team Leadership		
	The user/individual on the job needs to know and understand how to:		
	SB5. communicate effectively to the team members		
	SB6. identify conflicts in the team and try to resolve them at the earliest		
	SB7. interact and engage with the team members on a day to day basis		
	The state of the s		
	The second secon		
	SB9. timely highlight to the management about any good work/ achievement by		
	the operators and helpers		
	SB10. display empathy for the problems faced by the team and act on the concerns		
	Analytical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB11. break the problem into smaller issues and tasks to arrive at a solution		
	SB12. understand inter process relationship and establish relationship between		
	various parts of the problem		
	SB13. leverage experience to find effective solutions to problems		
	SB14. use basic analytical tools to arrive at solutions		
	SB15. collaborate with cross functional teams to resolve problems		
	Judgment and Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB16. use common sense and make judgments during day to day basis		
	SB17. use reasoning skills to identify and resolve problems		
	SB18. use intuition to detect any potential problems which could arise		
	during operations		
	9 '		
	SB19. critically analyse solutions/ recommendations shared by operatives and		
	supervisors for implementation		
	Ownership		
	The user/individual on the job needs to know and understand how to:		
	SB20. accept additional responsibility for self and the team		
	SB21. encourage self and other to take greater responsibilities		
	SB22. ensure that the work allocated to the team is completed as per timelines and		
	quality norms		
	SB23. identify obstacles and bottlenecks in the process and on own find basic level		
	solutions for removing these obstacles		
	Team Work		







	noop wood internating team on a day to day basis				
	The user/individual on the job needs to know and understand how to:				
SB24. motivate and provide support for the team					
SB25. encourage collaboration between team members					
	SB26. resolve team issues and grievances to manage conflicts within the team				
SB27. create an environment of approachability, trust and openness within the					
SB28. ensure role clarity for all operators and helpers on the line/ shift					
SB29. escalate any team related issues to the concerned person at the right time.					
	Decision making				
	The user/individual on the job needs to know and understand how to:				
	SB30. use previous experience in resolving problems and taking decisions				
	SB31. make timely and independent decisions on the line/shift within the				
	boundaries of the delegation matrix of the organization				









NOS Version Control

NOS Code	ASC/N0020		
Credits(NSQF)	TBD	Version number	1
Industry	Automotive	Drafted on	16/12/2013
Industry Sub-sector	Research & Development	Last reviewed on	17/12/2013
Occupation	All	Next review date	17/12/2015









National Occupational Standard



Overview

This unit is about maintaining a Safe and Healthy working environment







Unit Code	ASC/N0006D			
Unit Title				
(Task)				
	Maintain a safe and healthy working environment at the work place			
Description	This NOS unit is about creating a Safe and Healthy work place, adhering			
	to the safety guidelines in the working area, following practices which are			
	not impacting the environment in a negative manner and training team			
Scano	members on health and safety related issues			
Scope	The role holder will be responsible for:			
	 identifying and reporting risks creating and sustaining a safe, clean and environmental friendly 			
	work place			
	This NOS will be applicable to all Automotive sector manufacturing job			
	roles			
Performance Criteria (PC) w.r.t.	the Scope			
Element	Performance Criteria			
Display awareness to the	PC1. Display understanding of the activities which can cause potential			
potential safety risks	injury through sharp objects, burns, fall, electricity, gas leakages,			
	radiation, poisonous fumes, chemicals ,loud noise			
	PC2. Be aware of the areas in the plant/ lab/ R&D facility which are			
	potentially hazardous/ unbygienic in nature			
	PC3. Understand all risk involving hazardous areas near the work			
	place that are marked/ tagged in order to caution the users of			
	the work area/ machinery			
	PC4. Attend awareness drives held amongst other on sharing			
	information on the identified risks			
Display awareness towards	PC5. Attend periodic awareness sessions that are conducted PC6. Wear the recommended Personal Protective Equipment (PPE)			
maintaining a Safe, clean and	and also ensure self-usage of the required PPEs when entering			
environment friendly work	the plant/ lab/ R&D test lab premises			
place	PC7. Display awareness of the instructions given on the equipment			
piace	manual describing the operating process of the equipment to			
	prevent any hazard			
	PC8. Be aware of the first aid safety kit at the work place/ lab location			
	and the requisite items to respond to minor injuries			
	PC9. Attend all safety and fire drills to be self-aware of safety hazards			
	and preventive techniques and ensure that the team participate			
	in all the required safety and fire drills			
	PC10. Participate in all safety related initiatives like Safety Committee			
	participations, Safety Day Celebrations etc.			
	PC11. Maintain high standards of personal hygiene at the work place			
	PC12. Inform the medical officer/ HR in case of self or an			
	employee's illness of contagious nature so that preventive			
	actions can be planned for others			
Knowledge and Understanding				
Element	Knowledge and Understanding			







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A. Organizational	The user/individual on the job needs to know and understand:			
Context (Knowledge of the	KA1. relevant standards, procedures and policies related to Health,			
company / organization and	Safety and Environment followed in the company			
its processes)	KA2. emergency handling procedures & hierarchy for escalation			
B. Technical Knowledge	The user/individual on the job needs to know and understand:			
	KB1. basic knowledge of Safety procedures(fire fighting, first aid)			
	within the organization			
	KB2. knowledge of various types of PPEs and their usage			
	KB3. basic knowledge of risks/hazards associated with each			
	occupation in the organization			
	KB4. how to safely operate various tools and machines and risks			
	associated with the tools/ equipment			
	KB5. knowledge of personal hygiene and how an individual an			
	contribute towards creating a highly safe and clean working			
	environment			
Skills (S) w.r.t. the scope	1			
Element	Skills			
A. Core Skills/ Generic Skills	Writing Skills			
	The user/individual on the job needs to know and understand how to:			
	SA1. write basic level notes and observations			
	SA2. note down observations (if any) related to the process			
	SA3. write information documents to internal departments/ internal			
	teams			
	Reading Skills			
	The user/individual on the job needs to know and understand how to:			
	SA4. read safety instructions put up across the plant premises			
	SA5. read safety precautions mentioned in equipment manuals and			
	panels to understand the potential risks associated			
	panels to understand the potential risks associated			
	Oral Communication (Listening and Speaking skills)			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to:			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety,			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment.			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand the safety related issues			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand the safety related issues SA10. attentively listen with full attention and comprehend the			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand the safety related issues SA10. attentively listen with full attention and comprehend the SA11. information given by the speaker during safety drills and training			
R. Professional Skills	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand the safety related issues SA10. attentively listen with full attention and comprehend the SA11. information given by the speaker during safety drills and training programs			
B. Professional Skills	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand the safety related issues SA10. attentively listen with full attention and comprehend the SA11. information given by the speaker during safety drills and training			
B. Professional Skills	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand the safety related issues SA10. attentively listen with full attention and comprehend the SA11. information given by the speaker during safety drills and training programs Judgmental Thinking The user/individual on the job needs to know and understand how to:			
B. Professional Skills	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand the safety related issues SA10. attentively listen with full attention and comprehend the SA11. information given by the speaker during safety drills and training programs Judgmental Thinking The user/individual on the job needs to know and understand how to: SB1. use common sense and make judgments during day to day basis			
B. Professional Skills	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. effectively communicate information to team members SA7. inform employees in the plant and concerned functions about SA8. events, incidents & potential risks observed related to Safety, Health and Environment. SA9. question the process head/ safety team in order to understand the safety related issues SA10. attentively listen with full attention and comprehend the SA11. information given by the speaker during safety drills and training programs Judgmental Thinking The user/individual on the job needs to know and understand how to:			







ASC/NOUGD: Maintain a Safe and Healthy Working environment			
The us	er/ individual on the jobs needs to know and understand how to:		
SB3.	persuade team members to wear Personal Protective Equipment		
	as per requirement		
SB4.	ensure that the team understands the importance of using		
	various machines and equipment without creating any risk to		
	human/ machine		
SB5.	train team members on various risks identified		
Analyt	Analytical Thinking		
The us	er/individual on the job needs to know and understand how to:		
	er/individual on the job needs to know and understand how to: break the problem into smaller issues and tasks to arrive at a solution		
SB6.	break the problem into smaller issues and tasks to arrive at a		
SB6.	break the problem into smaller issues and tasks to arrive at a solution understand inter process relationship and establish relationship between various parts of the problem		
SB6. SB7.	break the problem into smaller issues and tasks to arrive at a solution understand inter process relationship and establish relationship between various parts of the problem leverage experience to find effective solutions to problems		

NOS Version Control

NOS Code	ASC/N0006D	ASC/N0006D		
Credits(NSQF)	TBD	Version number	1	
Industry	Automotive	Drafted on	10/01/2014	
Industry Sub-sector	R&D	Last reviewed on	20/01/2014	
Occupation	All	Next review date	20/01/2016	