







# **Model Curriculum**

**QP Name: Automotive Body Painting Operator** 

QP Code: ASC/Q3303

QP Version: 2.0

**NSQF Level: 3** 

**Model Curriculum Version: 1.0** 

Automotive Skills Development Council | 153, Gr Floor, Okhla Industrial Area, Phase – III, Leela Building, New Delhi – 110020







# **Table of Contents**

Training Parameters	3
Program Overview	4
Training Outcomes	4
Compulsory Modules	4
Module 1: Introduction to the role of an Automotive Painting Operator	6
Module 2: Organize work and resources according to safety and conservation standards	7
Module 3: Communicate Effectively and Efficiently	9
Module 4: Support the painting technician in pre-treatment process	10
Module 5: Support the painting technician in painting and post-painting operations	12
Annexure	14
Trainer Requirements	14
Assessor Requirements	15
Assessment Strategy	16
References	17
Glossary	17
Acronyms and Abbreviations	18







# **Training Parameters**

Sector	Automotive
Sub-Sector	Manufacturing
Occupation	Painting & Surface Treatment Operation
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7132.0203
Minimum Educational Qualification and Experience	8th Class Pass with 1 year of relevant experience OR 8th Class Pass + ITI OR 10th Class pass OR Certificate-NSQF (Automotive Body Painting Assistant Level 2) with 1 year of relevant experience
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 years
Last Reviewed On	29/07/2021
Next Review Date	29/07/2026
NSQC Approval Date	29/07/2021
QP Version	2.0
Model Curriculum Creation Date	29/07/2021
Model Curriculum Valid Up to Date	29/07/2026
Model Curriculum Version	1.0
Minimum Duration of the Course	300 Hours 00 Minutes
Maximum Duration of the Course	300 Hours 00 Minutes







# **Program Overview**

This section summarizes the end objectives of the program along with its duration.

#### **Training Outcomes**

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Perform preparatory works such as identification of raw material, tools and equipment required for the pre-treatment and painting operations.
- Carry out body preparation and surface treatment processes on vehicle parts.
- Carry out painting operations on vehicle body parts.
- Work effectively and efficiently as per schedules and timelines.
- Implement safety practices.
- Optimize the use of resources to ensure less wastage and maximum conservation.

#### **Compulsory Modules**

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
Bridge Module	05:00	00:00			05:00
Module 1: Introduction to the role of an Automotive Painting Operator	05:00	0:00			05:00
ASC/N9803 – Organize work and resources (Manufacturing) NOS Version No. – 1.0 NSQF Level – 3	15:00	30:00			45:00
Module 2: Organize work and resources according to safety and conservation standards	15:00	30:00			45:00
ASC/N9802 – Interact effectively with colleagues, customers and others NOS Version No. – 1.0 NSQF Level - 3	15:00	25:00			40:00
Module 3: Communicate effectively and efficiently	15:00	25:00			40:00
ASC/N3305 – Support the painting technician in pretreatment process NOS Version No. – 2.0 NSQF Level - 3	30:00	60:00			90:00
Module 4: Support the painting technician in pre-treatment process	30:00	60:00			90:00
ASC/N3306 – Support the painting technician in painting and post-painting	45:00	75:00			120:00







operations NOS Version No. – 2.0 NSQF Level - 3				
Module 5: Support the painting technician in painting and post-painting operations	60:00	90:00		150:00
<b>Total Duration</b>	110:00	190:00		300:00







# **Module Details**

# Module 1: Introduction to the role of an Automotive Painting Operator Bridge module

#### **Terminal Outcomes:**

• Discuss the role and responsibilities of an Automotive Painting Operator.

<b>Duration</b> : <05:00>	<b>Duration</b> : <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>List the role and responsibilities of an Automotive Painting Operator.</li> <li>Discuss the job opportunities of an Automotive Painting Operator in an automobile industry.</li> <li>Explain about Indian automotive manufacturing market.</li> <li>List various automobile Original Equipment Manufacturers (OEMs) and different products/ models manufactured by them.</li> <li>Discuss the standards and procedures involved in the different processes of vehicle body painting.</li> </ul>	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	







# Module 2: Organize work and resources according to safety and conservation standards

### Mapped to ASC/N9803, v1.0

#### **Terminal Outcomes:**

- Employ appropriate ways to maintain safe and secure working environment.
- Perform work as per the quality standards.
- Apply conservation practices at the workplace.

<b>Duration</b> : <15:00>	<b>Duration</b> : <30:00>			
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes			
<ul> <li>List the potential workplace related risks and hazards, their causes and preventions.</li> <li>Identify PPE to be used at workplace.</li> <li>Identify various warning signs used at the workplace.</li> <li>Describe appropriate strategies to deal with emergencies and accidents at the workplace.</li> <li>Outline the organizational structure to be followed to report about health, safety and security breaches to the concerned authorities.</li> <li>Discuss the importance of keeping work area clean and tidy.</li> <li>Discuss the significance of conforming to basic hygiene practices such as washing hands, using alcohol based hand sanitizers or soap.</li> <li>Discuss organizational hygiene and sanitation guidelines and ways of reporting breaches/gaps if any to the concerned authorities.</li> <li>Discuss the ways of dealing with stress and anxiety.</li> <li>Discuss how to complete the given work within the stipulated time period.</li> <li>Explain how to maintain a proper balance between team and individual goals.</li> <li>Explain 5S guidelines at workplace.</li> <li>List the various materials used at the workplace.</li> </ul>	<ul> <li>Apply appropriate safety practices to ensure safety of people at the workplace</li> <li>Display the correct way of wearing and removing PPE such as face masks, hand gloves, face shields, PPE suits, etc.</li> <li>Demonstrate the use of fire extinguisher.</li> <li>Apply basic first aid procedure in case of emergencies.</li> <li>Perform routine cleaning of tools, equipment and machines.</li> <li>Employ various techniques for checking malfunctions in the equipment as per Standard Operating Procedure (SOP).</li> <li>Show how to sanitize and disinfect one's work area regularly.</li> <li>Demonstrate the correct way of washing hands using soap and water.</li> <li>Demonstrate the correct way of sanitizing hands using alcohol-based hand rubs.</li> <li>Demonstrate how to evacuate the workplace in case of an emergency.</li> <li>Demonstrate sorting of materials, tools and equipment and spare parts after completion of work.</li> <li>Demonstrate the steps involved in storage of tools, equipment and material after completion of work.</li> <li>Perform basic checks to identify any spills and leaks and that need to be plugged /stopped.</li> <li>Demonstrate different disposal techniques</li> </ul>			
<ul> <li>Explain organisational recommended procedure for storage of tools, equipment and material after completion of work.</li> <li>Explain the ways to optimize usage of</li> </ul>	<ul> <li>Demonstrate different disposal techniques depending upon types of waste.</li> <li>Employ different ways to check if equipment/machines are functioning as per requirements and report</li> </ul>			
resources.  • Discuss various methods of waste	malfunctioning, if observed.  • Employ ways for efficient utilization of			

material and water.

management and its disposal.







- List the different categories of waste for the purpose of segregation
- Differentiate between recyclable and nonrecyclable waste
- State the importance of using appropriate colour dustbins for different types of waste
- Discuss common practices for conserving electricity at workplace.
- Discuss the common sources of pollution and ways to minimize it.

#### **Classroom Aids:**

Whiteboard, marker pen, projector

#### **Tools, Equipment and Other Requirements**

- Housekeeping material: Cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel, fire extinguisher
- Safety gears: Safety shoes, ear plug, goggles, gloves, helmet, first-aid kit







### **Module 3: Communicate Effectively and Efficiently**

### *Mapped to ASC/N9802, v1.0*

#### **Terminal Outcomes:**

- Use effective communication and interpersonal skills.
- Apply sensitivity while interacting with different genders and people with disabilities.

<b>Duration</b> : <15:00>	<b>Duration</b> : <25:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Explain the organizational structure for communicating with colleagues, seniors and others.</li> <li>Discuss the ways to adjust the communication styles to reflect sensitivity towards gender and persons with disability (PwD).</li> <li>Explain the importance of respecting personal space of colleagues.</li> <li>State the procedure to receive work instructions and report problems to the supervisor.</li> <li>List the various organizational policies and procedures to be followed at the workplace.</li> <li>Describe different ways to rectify commonly occurring errors.</li> <li>Explain the importance of complying with the instructions/guidelines and procedures while performing tasks related to the job specifications.</li> <li>Discuss the importance of PwD and gender sensitization.</li> </ul>	<ul> <li>Employ different means of communication depending upon the requirement while interacting with others.</li> <li>Demonstrate using new ways to maintain good relationships with colleagues and supervisor.</li> <li>Prepare a sample report to send the work status to the supervisor.</li> <li>Demonstrate how to communicate with different genders and persons with disability (PwD) in a sensitive manner.</li> </ul>
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	







### Module 4: Support the painting technician in pre-treatment process

### Mapped to ASC/N3305, v2.0

#### **Terminal Outcomes:**

- Identify tools and equipment required for pre-treatment process.
- Perform the steps to carry out pre-treatment process.

<b>Duration</b> : <30:00>	<b>Duration</b> : <60:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Describe pre-treatment and surface preparation standards and procedures followed in the company.</li> <li>Discuss how to collect information from technician/supervisor about the pretreatment tasks.</li> <li>List the tools, equipment, accessories and materials required during pre-treatment and surface preparation work.</li> <li>Describe the selection criteria of tools, equipment, accessories and materials required during pre-treatment and surface preparation work.</li> <li>Discuss the organisational process of collecting and arranging the tools, equipment, accessories and materials from the store.</li> <li>Summarise the steps to be performed for checking the tools, equipment, accessories and materials before use.</li> <li>Discuss ways of safe handling and use of pre-treatment and surface preparation materials and solvents.</li> <li>Discuss the process of loading/unloading and placing the vehicle body parts on the designated place as per the work instructions.</li> <li>Describe process flow of pre-treatment and surface preparation processes i.e. prewash, hot water spray, pre-degreasing, degrease dip, Water rinse I spray &amp; Water rinse II dip, Surface Conditioning, Phosphate dip, Water rinse III spray &amp; Water rinse IV dip, ED Bath, Ultra Filtrate 1, 2 and 3, RCDM dip and Fresh DI spray process.</li> <li>Discuss various cleaning methods to clean the tools, equipment, fixtures, process auxiliaries and work area.</li> <li>Recall organisational recommended</li> </ul>	<ul> <li>Demonstrate the standard operating procedure to use tools, equipment, accessories and materials required during pre-treatment and surface preparation work.</li> <li>Show how to select and collect the required tools, equipment, accessories and materials from the store.</li> <li>Apply appropriate ways to check the tools, equipment, accessories and materials before use.</li> <li>Perform the steps of lifting and placing the vehicle body parts on the designated place manually or by using lifting tools.</li> <li>Show how to clean the vehicle body or parts before use.</li> <li>Demonstrate how to support the painting technician during all pre-treatment and surface preparation processes.</li> <li>Show how to remove any unwanted extra ED drops by using pressurised air as per SOP.</li> <li>Perform the steps of unloading the vehicle body or parts on skids for next process.</li> <li>Apply appropriate cleaning methods to clean the tools, equipment and process auxiliaries after completion of work.</li> <li>Demonstrate the organisational procedure involved in storage of tools, equipment and process auxiliaries after completion of work.</li> <li>Show how to dispose scrap or waste as per organisational guidelines.</li> </ul>







procedure for storage of the tools, equipment and process auxiliaries after completion of work.

• List different methods for disposing off waste material and scrap.

#### **Classroom Aids:**

Whiteboard, marker pen, projector

#### **Tools, Equipment and Other Requirements**

- PPT's, teaching aids
- Pre-treatment line consisting of degreasing phosphating & passivation facility, all type of chemicals for pre-treatment
- R.O & D.M Water
- Painting booth (4'x6'x10') approx with water screen facility, Paint Mixing Room, Inspection Booth With Sufficient Light (700 Lux)
- Painting Table, Paint Simulator
- Defective Parts With (Dust, Dry Flow )
- Samples Of Different Type Of Points i.e. Synthetic, Nc Parts & Pu Base Points
- Process Flow Charts Showing Pre-treatment Details & Parameters, Process Flow Charts Showing Painting Process & Parameters
- Paint transfer pump, spray gun, hose for spray gun, pressure gauges, paints, primers & thinners, viscosity, testing meter, stop watch, stirrer, paint container, sand paper of different grades, masking tapes, tool kit, air blow gun, vacuum machine, infrared drier, paint gun cleaning system, paint gun stand, sealant gun, paint mixing scale, digital weighing machine, tag rag, hangers for holding components, baking oven, paint thickness tester, pencil for scratch resistance test, adhesion tester with tape (cutter, knife), salt spray tester, lab equipment beakers/pipette, conductivity meter
- **lifting devices:** hoists, cranes, bins, part trolleys, pallet trucks
- **Safety materials**: Fire extinguisher, leather safety gloves, aprons, safety glasses, helmet, safety shoe, booth mask, nose mask, cap for head and first-aid kit
- Cleaning material: Tip cleaner, wire brush (M.S.), cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel







### Module 5: Support the painting technician in painting and post-painting **operations**

#### Mapped to ASC/N3306, v2.0

Theory – Key Learning Outcomes

#### **Terminal Outcomes:**

**Duration**: <45:00>

- Identify tools and equipment required for painting work.
- Perform the steps to carry out painting process.
- Perform the steps to carry out post-painting activities.

meory – key Learning Outcomes	Practical – key Learning Outcomes
<ul> <li>Describe painting standards and procedures followed in the company.</li> <li>Discuss how to collect information from technician/supervisor about the painting tasks.</li> <li>List the tools, equipment, accessories and materials required during painting work.</li> <li>Describe the selection criteria of tools, equipment, accessories and materials required during painting work.</li> <li>Discuss the organisational process of collecting and arranging the tools, equipment, accessories and materials from the store.</li> </ul>	<ul> <li>Demonstrate the standard operating procedure to use tools, equipment, accessories and materials required during painting work.</li> <li>Show how to select and collect the required tools, equipment, accessories and materials from the store.</li> <li>Apply appropriate ways to check the tools, equipment, accessories and materials before use.</li> <li>Perform the steps of lifting and placing the vehicle body parts on the designated place manually or by using lifting tools.</li> <li>Show how to clean the vehicle body or</li> </ul>
<ul> <li>Summarise the steps to be performed for checking the tools, equipment, accessories and materials before use.</li> </ul>	<ul> <li>parts before use.</li> <li>Demonstrate how to support the painting technician during mixing of paint material</li> </ul>
<ul> <li>Discuss the process of loading/unloading and placing the vehicle body parts on the designated place as per the work</li> </ul>	<ul> <li>with additives as per the specified ratio.</li> <li>Apply appropriate ways to check the paint viscosity.</li> </ul>

**Duration**: <75:00>

Practical - Key Learning Outcomes

auxiliaries and work area. Describe operation of paint booth in automatic and manual mode.

Discuss various cleaning methods to clean

the tools, equipment, fixtures, process

instructions.

- Describe process flow of painting operations.
- Describe the selection criteria of base colour and appropriate colorants as per the work requirements/instructions.
- Discuss how to mix the correct amount of paint material as per specified ratio.
- Describe correct technique for efficient use of spray paint equipment.
- Discuss importance of time gap or drying time between application of two coats of paints.

- Show how to dd reducer/ thinner/ water
- to adjust viscosity of paint mix as per requirement.
- Perform steps to prepare painting tools and material for painting job.
- Show how to adjust air pressure and flow of paint gun as required for the job.
- Demonstrate how to support the painting technician in applying appropriate coats of paint on vehicle body parts.
- Apply appropriate ways to check that paint coverage is uniform and there are no patches on the painted parts.
- Demonstrate how to support technician in inspection for identifying the defects and checking the quality of painted parts.
- Show how to segregate, tag, store and







- Discuss the tasks to be performed postpainting.
- Summarise the commonly occurring defects in the painted parts.
- Discuss the impact of defects on the quality of painted parts.
- Explain the inspection methods for identifying the defects and checking the quality of painted parts as per the control plan.
- Discuss the process of segregating, tagging and storing of damaged and ok workpieces and maintaining records of segregation as per organisational guidelines.
- Discuss various cleaning methods to clean the tools, equipment, fixtures, process auxiliaries and work area.
- Recall organisational recommended procedure for storage of the tools, equipment and process auxiliaries after completion of work.
- List different methods for disposing off waste material and scrap.

- record data of damaged and ok parts as per organisational guidelines.
- Apply appropriate cleaning methods to clean the tools, equipment and process auxiliaries after completion of work.
- Demonstrate the organisational procedure involved in storage of tools, equipment and process auxiliaries after completion of work.
- Apply appropriate ways to clean the work area.
- Show how to dispose scrap or waste as per organisational guidelines.

#### **Classroom Aids:**

Whiteboard, marker pen, projector

#### **Tools, Equipment and Other Requirements**

- PPT's, teaching aids
- Pre-treatment line consisting of degreasing phosphating & passivation facility, all type of chemicals for pre-treatment
- R.O & D.M Water
- Painting booth (4'x6'x10') approx with water screen facility, Paint Mixing Room, Inspection Booth With Sufficient Light (700 Lux)
- Painting Table, Paint Simulator
- Defective Parts With (Dust, Dry Flow )
- Samples Of Different Type Of Points i.e. Synthetic, Nc Parts & Pu Base Points
- Process Flow Charts Showing Pre-treatment Details & Parameters, Process Flow Charts Showing Painting Process & Parameters
- Paint transfer pump, spray gun, hose for spray gun, pressure gauges, paints, primers & thinners, viscosity, testing meter, stop watch, stirrer, paint container, sand paper of different grades, masking tapes, tool kit, air blow gun, vacuum machine, infrared drier, paint gun cleaning system, paint gun stand, sealant gun, paint mixing scale, digital weighing machine, tag rag, hangers for holding components, baking oven, paint thickness tester, pencil for scratch resistance test, adhesion tester with tape (cutter, knife), salt spray tester, lab equipment beakers/pipette, conductivity meter
- **lifting devices:** hoists, cranes, bins, part trolleys, pallet trucks
- **Safety materials**: Fire extinguisher, leather safety gloves, aprons, safety glasses, helmet, safety shoe, booth mask, nose mask, cap for head and first-aid kit
- Cleaning material: Tip cleaner, wire brush (M.S.), cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel







# **Annexure**

## **Trainer Requirements**

Trainer Prerequisites							
Minimum Educational	Specialization	pecialization Relevant Industry Experience		Training Experience		Remarks	
Qualification		Years	Specialization	Years	Specialization		
ITI	Mechanics/Fitter	3	Turner/ Fitter/Electrician	1	Turner/ Fitter/Electrician	NA	
ITI	Mechanics/Fitter	4	Turner/Fitter/ Electrician	0	Turner/Fitter/ Electrician	NA	
Diploma	Mechanical/ Automobile	2	Mechanical/ Automobile	1	Mechanical/ Automobile	NA	
Diploma	Mechanical/ Automobile	3	Mechanical/ Automobile	0	Mechanical/ Automobile	NA	

Trainer Certification					
Domain Certification Platform Certification					
"Automotive Painting Operator, ASC/Q3303, version	"Trainer, MEP/Q2601 v1.0"				
2.0".	Minimum accepted score is 80%.				
Minimum accepted score is 80%.					







## **Assessor Requirements**

Assessor Prerequisites							
Minimum Educational	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks	
Qualification		Years	Specialization	Years	Specialization		
ITI	Turner/ Fitter/Electrician	4	Turner/ Fitter/Electrician	1	Turner/ Fitter/Electrician	NA	
ITI	Turner/Fitter/ Electrician	5	Turner/Fitter/ Electrician	0	Turner/Fitter/ Electrician	NA	
Diploma	Mechanical/Electrical/ Automobile	3	Mechanical/Electrical/ Automobile	1	Mechanical/Electrical/ Automobile	NA	
Diploma	Mechanical/Electrical/ Automobile	4	Mechanical/Electrical/ Automobile	0	Mechanical/Electrical/ Automobile	NA	

Assessor Certification	
Domain Certification	Platform Certification
"Automotive Painting Operator, ASC/Q3303, version	"Assessor; MEP/Q2701 v1.0"
2.0".	Minimum accepted score is 80%.
Minimum accepted score is 80%.	







#### **Assessment Strategy**

#### 1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SDMS/SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

#### 2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

#### 3. Assessment Quality Assurance levels / Framework:

- Question papers created by the Subject Matter Experts (SME)
- Question papers created by the SME verified by the other subject Matter Experts
- Questions are mapped with NOS and PC
- Question papers are prepared considering that level 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
- Assessor must be ToA certified & trainer must be ToT Certified
- Assessment agency must follow the assessment guidelines to conduct the assessment

#### 4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding
- Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
- Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos

#### Method of verification or validation:

- Surprise visit to the assessment location
- Random audit of the batch
- Random audit of any candidate

#### 6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored
- Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
- Soft copies of the documents & photographs of the assessment are stored in the Hard Drives







### References

## Glossary

Term	Description
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on site
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of training on site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.







## **Acronyms and Abbreviations**

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
SOP	Standard Operating Procedure
WI	Work Instructions
PPE	Personal Protective equipment