



**INTERMEDIATE APPARE PRODUCTION
NTQF LEVEL II**

Learning guide #26

Unit of Competence: Interpret Pattern and
Applying Pattern Information

Module Title: Interpreting Pattern and Applying
Pattern Information

LG Code: IND IAP2MO7 LO1-LG 26

TTLM Code: IND IAP2TTLM 07 09 2019

LO3: Apply pattern information and specification



Instruction Sheet	Learning Guide 26
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This learning guide is developed to provide you the necessary information regarding the following content coverage and topics –

- OHS practices
- garment production faults
- Pattern pieces
- Garment production Documentation

This guide will also assist you to attain the learning outcome stated in the cover page. Specifically, upon completion of this Learning Guide, you will be able to –

- Applied Pattern information and specifications to garment production
- Check Pattern pieces, information and specifications for accuracy throughout garment production process
- Identify and report Garment production faults relating to pattern or pattern information and specifications
- Follow and action is take OHS practices according to OHS practices to prevent accidents and to eliminate risks to personal safety
Complete Production documentation as required



Learning Instructions:

1. Read the specific objectives of this Learning Guide.
2. Follow the instructions described in number 1 to.6
3. Read the information written in the “Information Sheets 1” “Information Sheets 2” “Information Sheets 3” “Information Sheets 4” “Information Sheets 5”. Try to understand what are being discussed. Ask you teacher for assistance if you have hard time understanding them.
4. Accomplish the “Self-check 1” “Self-check 2” “Self-check 3” “Self-check 4” “Self-check 5”
5. Ask from your teacher the key to correction (key answers) or you can request your teacher to correct your work. (You are to get the key answer only after you finished answering the “Self-check 1” “Self-check 2” “Self-check 3” “Self-check 4” “Self-check 5”).
6. If you earned a satisfactory evaluation you can proceed to Learning Guide #26

However, if your rating is unsatisfactory, see your teacher for further instructions or go back to Learning Activity.



Information Sheet-1

Following OHS practices

3.1 Following OHS practices

- 3.1.1 Manual handling techniques and safe materials handling
- 3.1.2 Standard operating procedures
- 3.1.3 Personal protective equipment
- 3.1.4 Ergonomic arrangement of workplaces
- 3.1.5 Housekeeping
- 3.1.6 Reporting accidents and incidents

Introduction

3.1 Definition of terms Occupational health and safety (OHS)

Occupation:“**Occupation**” is the kind of job a person performed at his or her place of work. These jobs are described in many ways. Some are patternmaking, sewing, finishing, etc.

A pattern is a **blueprint** for constructing a garment. It is an outline, a template to create shape. A pattern creates all of the components of a garment needed to form a complete unit of clothing. A pattern, regardless of size or shape, includes important markings necessary to sew the pattern pieces together so that they fit precisely. These markings include: **darts, seam allowances notches and punch holes for trims, pocket, button, and buttonhole placement.**

In simple words ***“It is a diagrammatic representation of the garment used for reproducing garment to fit a specific figure.”***

Developing a pattern is not an easy task. So, if you want to make your own garments, the first essential is to make up a MASTER PATTERN to your key measurements. Use this as a basis from which to work out any desired variations.



You could, for instance, make master patterns for a skirt, blouse, dress and trousers, or for such features as a sleeve and collar.

These basis patterns could then be adapted to design a wide range of garments.

3.1.1 **Standard operating safety procedures**

- Protection equipment: including personal protective equipment (PPE) for ears, eyes, face.
- Protective clothing,
- Protective shields and barriers shall be provided.
- Before doing work that requires the use of PPE, the trainee must be trained.

❖ When PPE is necessary:

- What type PPE is necessary
- How to properly done, doff, adjust and wear PPE
- The limitation of the PPE &
- The proper care, maintenance, useful life and disposal of the PPE

❖ Way to learn and understand safety

- 1) *Accidental experience*: experiences which were caused by accidents.
- 2) *Safety education*: a method which makes us aware of dangerous situations to avoid accident or injury.

3.1.2 **Personal safety protective equipment**

Personal safety protections include:

- Eye and face protection
- Hearing protection
- Respiratory protection
- Wearing apparel



3.1.3 Safe materials handling

- Keep the materials in well manner
- Use the material as enough as required.

3.1.4 Equipment/machine safety

- Every morning the trainees wipe and clean the equipments.
- After work, they have to wipe, clean and cover the equipments.

3.1.5 Personal responsibilities for safety

- Observe all, before, safety precautions related to your work.
 - Report unsafe conditions or any equipment or materials you think might be unsafe.
 - Warn others about the hazards.
 - Report any injury or ill
 - Wear protective clothing
 - Be safety consuls
 - Always inspect equipment and associated attachments for damage before using.
- Safety precautions *concerning people*
 - During working, wear appropriate protective clothing properly.
 - Never remove safety device or safety covers from equipment
 - Be careful of high clothes. Never touch switches with wet hands.
 - When an accident occurs, it should be reported immediately to proper authority.
 - Safety precautions *concerning facilities*
 - Facilities must be adequately illuminated, clean, neat and dry.
 - Keep the area organized so that there are no obstacles lying around the floor.



- The equipment and floor should be free from dust and any chipping.
- Work benches must be strong.

3.1.6 **Ergonomic arrangement of work place**

Ergonomic is a science which is used for arrange the work place.

Ergonomics on the hand:

- Combine all of the issues to improve workers efficiency and well being
- Maintain industrial production through the design of improved work places.

OHS & Ergonomics *applications*:

- to satisfy the needs of changing local people's attitudes.
- to change local work methods
- to change the traditional ways of doing things.

Therefore, OHS & Ergonomic applications are a major source of work place improvement.

3.1.7 **Material Handling**

Organization is the key to make quality and accurate patterns with a professional finish. This is especially important with your tools and equipment.

You do not need a lot of expensive equipment, but good tools, well organized and maintained, are very important.

As with any work shop, the secret of a good planning is to have everything you are likely to need within easy reach, with first priority for articles that are in constant use.

Have a WASTE BASKET handy, so that the floor is kept tidy and the work surface uncluttered with unwanted bits and pieces.

Working on the principle of "A PLACE FOR EVERYTHING, and EVERYTHING IN ITS PLACE", you can adapt these ideas to suit the equipment you already have or can easily obtain.



Exercise: Practice the 5'S “Japanese housekeeping system” in your pattern making area.

Note that: 5'S means:

1. Seiri –sort
2. Seiton -systemize
3. Seiso - sweep
4. Seiketsu - standardaize
5. Shitusuke – sustainable

3.1.8 Pattern making Tools and Equipments

The equipment you need for pattern making consists of:

- A tape measure,
- Pins,
- A tracing wheel,
- Medium-size scissors,
- A ruler at least 60 cm (24”) long,
- An L-square or a set square,
- An awl or stiletto,
- Tissue paper and Brown or white wrapping paper.



<i>Self-Check -1</i>	<i>Written Test</i>
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page

1. What is "Occupation?"(2 point)
2. What is Ergonomics? (2 point)
3. Write two examples of **Personal safety** (2 point)
4. Write two examples of **Equipment/ machine safety** (2 point)
5. Write two examples of **Material safety** (2 point)
6. **What** are the basic elements of a good housekeeping? (2 point)
7. **What is 3S?** (2 point)
8. Write and define each **S**(2 point)
9. What are the results of **3S?** (2 point)
10. **What is OHS?** (2 point)



Note: Satisfactory rating – 10 points

Unsatisfactory - below 10 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____

Rating: _____

Name: _____

Date: _____

1. _____

2. _____

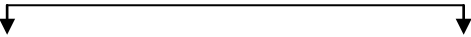




Information Sheet-2

Applying pattern information and specifications

3.2 Applying pattern information and specifications

The following are common pattern information's written on each patter for production purpose:

- Style/ Item e.g. Blouse
- The name of each pattern piece e.g. Front panel
- The number of pieces to be cut e.g. cut 2X
- Style no. e.g. BL 001-2004
- Size e.g. 36
- Fold line e.g. 
- Grain line e.g.  or 
- Notch e.g. V- or U- mark on the edge of the pattern to show like seam and hem allowance, dart legs, for fitting of long seam etc.
- Drill mark/punch hole e.g. to show pocket position, dart endings, button hole position, etc
- CB or CF

See Annex 1: A pattern with complete pattern markings

Annex 2: A pattern with complete pattern markings and information



Self-Check -2	Written Test
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page

1. Draw grain line.(2 points)
2. Draw shape of notch. (2 points)
3. What is the use of drill mark or punch hole(2 points)
4. Write the name of each pattern piece. (2 points)

Note: Satisfactory rating – 3 points

Unsatisfactory - below 3 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date: _____

1. _____

2. _____



Information Sheet-3	Checking pattern pieces, information and specifications
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3.3 Checking pattern pieces, information and specifications

During pattern making process the pattern master has to check and control the following points:

- All the pattern pieces required for a particular design should be there.
- All the pattern pieces should be according to the size specifications.
- The entire pattern must be aligned with fabric grain.
- Grain line should be parallel to the selvedge.
- Pattern pieces of different sizes should be correctly labeled in marker.
- Darts, notches, drill marks should be at correct location and distinct.
- While doing grading the increase or decrease in size should be proportionate according to the given size range.
- In the marker there should be enough space for knife movement for proper cutting.
- Patterns for checks and stripes should match properly.
- Patterns should not move from its position while marking the marker.
- Pattern lines should be defined properly (e.g. chalk too thick may lead to inaccurate cutting)



Self-Check -3	Written Test
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page

1. What are pattern making process must be check and control? **(6 point)**

Note: Satisfactory rating – 3 points Unsatisfactory - below 3 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date: _____

1. . _____

2. . _____



Information Sheet-4	Identifying and reporting garment production faults relating to pattern or pattern information and specifications
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3.4 Identifying and reporting garment production faults relating to pattern or pattern information and specifications

The following are faults related to pattern/ pattern information and specifications.

- Finished garment NOT to size- using wrong pattern
- Missed parts
- Wastage of fabric
- Mismatched pattern pieces e.g. side seam of the front panel NOT fit with side seam of the back panel
- Wrong marking e.g. drills/ pin hole is wrongly placed on the pattern
- Wrong grain line placed on the pattern



Self-Check -4	Written Test
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page

1. Write faults related to pattern information and specification (6 point)

Note: Satisfactory rating – 3 points Unsatisfactory - below 3 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date: _____

1. _____

2. _____



Information Sheet-5

Completing production documentation

3.5 Completing production documentation

A request for production is a legal request for documents, electronically stored information, or other tangible items made in the course of litigation.

Any change relative to pattern, pattern information and specifications should be amended, communicated and documented as early as possible before commencing production. If changes are NOT documented, faults will arise in the production and incur extra cost. For example: If you change the design of the prepared pattern, you should change the pattern as per the new design, communicate and document it properly as early as possible.

Documentation:

- ✓ Arrangements for the preparation, revision, and distribution of documents
- ✓ Necessary documentation for the manufacture
- ✓ Any other documentation related to product quality that is not mentioned elsewhere (e.g., regarding microbiological control of air and water)

Production:

- ✓ Brief description of production operations using, wherever possible, flow sheets and charts specifying important parameters
- ✓ Arrangements for the handling of starting materials, packaging materials, and bulk and finished products; this includes the arrangements for sampling, quarantine, release, and storage.
- ✓ Arrangements for the handling of rejected materials and products
- ✓ Brief description of the general policy for process validation



Self-Check -5	Written Test
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page

1. Write about documentation **(3point)**
2. Write about production **(3point)**

Note: Satisfactory rating – 3 points Unsatisfactory - below 3 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date: _____

1. . _____

2. . _____



Reference:-

- 1) Complete Guide to Sewing; THE READER'S DIGEST ASSOCIATION LIMITED; 1987.
- 2) Helen Joseph-Armstrong Patternmaking for Fashion Design, 5th Edition 2009
- 3) Metric pattern making book
- 4) EOS Level II; UOC 5; Version 2011 G.C.
- 5) Untitled hand outs.