

**JOB SPECIFICATON  
AND  
SKILL TEST**

**JOB TITLE : ORTHOPTIST, L- 4**  
**SECTOR : HEALTH**  
**SUB-SECTOR : OPHTHALMOLOGY**

**COUNCIL FOR TECHNICAL EDUCATION AND VOCATIONAL TRAINING**

**NATIONAL SKILL TESTING BOARD**

**SANOTHIMI, BHAKTAPUR, NEPAL**

**MARCH 11, 2005 (2061 .11.28)**

## **The National Skill Standards and test was developed by**

<b>1. Dr. Ram Prasad Pokharel</b>	<b>Coordinator</b>	<b>Technical Sub-committee, CTEVT.</b>
<b>2. Dr. D. B. Karki</b>	<b>Member</b>	<b>Training Coordinator, Nepal Eye Hospital</b>
<b>3. Dr. Narayani Shrestha</b>	<b>Member</b>	<b>Chief Executive, Nepal Eye Hospital</b>
<b>4. Dr. Jeevan Kumar Shrestha</b>	<b>Member</b>	<b>Director, BPKLCOS</b>
<b>5. Dr. Suraj Rana</b>	<b>Member</b>	<b>Training Coordinator, Birendra Army Hospital</b>
<b>6. Mr. Mohan Krishna Shrestha</b>	<b>Member</b>	<b>Research Associate, Tilganga Eye Centre</b>
<b>7. Mrs. Aparajita Manoranjan</b>	<b>Member</b>	<b>Orthoptist, Nepal Eye Hospital</b>
<b>8. Mrs. Laxmi Rijal</b>	<b>Member</b>	<b>Orthoptist, Nepal Eye Hospital</b>
<b>9. Mr. Y. D. Sapkota</b>	<b>Member</b>	<b>Programme Coordinator, NNJS</b>
<b>10. Mr. Bimal Poudyal</b>	<b>Member</b>	<b>Sr. Health Education Officer, NNJS</b>
<b>11. Mr. Chandra Bhakta Nakarmi</b>	<b>Member</b>	<b>Director, Skill Testing Division, CTEVT</b>
<b>12. Mr. Chhabi Bahadur Gurung</b>	<b>Member</b>	<b>Deputy Director, Skill Testing Division, CTEVT</b>
<b>13. Mr. Suresh Bhaila</b>	<b>Member</b>	<b>Skill Testing Officer, Skill Testing Division, CTEVT</b>

**Developed jointly by Skill Testing Division/CTEVT**

**And**

**Nepal Eye Hospital, Tripureswor**

**Approved by the Tripartite National Skill Testing Board.**

**March 11, 2005 (2061.11.28)**

## JOB SPECIFICATION

1	<b>JOB TITLE : ORTHOPTIST</b> <b>LEVEL : 4</b>
2	<b>JOB DESCRIPTION</b> Investigates, diagnoses, and treats disorders of vision, binocular vision, eye movements and nystagmus in patients referred. Works independently, under direct or indirect supervision of ophthalmologist in eye hospitals, rehabilitation centres or in private practice. Works with paediatric ophthalmologists, paediatricians and multi-disciplined teams for rehabilitation of low vision patients and patients with visual disturbance caused by congenital defects, injury and disease. Assists in research related activities.
3	<b>LIST OF TASKS:</b> <ol style="list-style-type: none"><li>1. Taking history of patient</li><li>2. Performing visual acuity examination.</li><li>3. Performing visual field examination.</li><li>4. Evaluating sensory and motor functions of the eyes including defective vision, diplopia, problems of depth perception, fusion, visual discomfort, different types of strabismus (latent, manifest, comitant, incomitant etc) restriction of eye movement, disturbance of binocular vision resulting from neurological problems.</li><li>5. Performing non surgical management of different types of strabismus (latent, manifest, comitant, incomitant etc ), including defective vision, diplopia, problems of depth perception, fusion, visual discomfort, and disturbance of binocular vision, resulting from neurological problems and restriction of eye movements.</li><li>6. Performing subjective and objective refraction for all type of patients (children, adult, intellectually and physically handicapped) and suggest appropriate optical correction.</li><li>7. Managing community outreach activities and assisting in research related activities.</li></ol>
4	<b>QUALIFYING NOTES (entry requirement etc.)</b> Normal health with binocular single vision (VA best corrected 6/9) OA L - 3 passed + Three years experience + One year training. OR Certificate level in health science (Ophthalmology) equivalent passed + 3 year experience and 1 year training.

## TASK SPECIFICATION

5 TASK NO: 1  
Taking history of the patient.

6 Task Elements:

- 1.1 Collects history-taking formats.
- 1.2 Takes history of present and past ocular illness.
- 1.3 Takes history of systemic illness and medication taken.
- 1.4 Takes family history.
- 1.5 Records and reports to the supervisor.

## TASK SPECIFICATION

7 TASK PERFORMANCE REQUIREMENTS (EQUIPMENT)

- Referral slip
- Standard format
- Previous medical/Treatment records

8 TASK PERFORMANCE STANDARDS

- Patient identified.
- History of present, past, systemic/ocular illness, previous treatment completely recorded in standard format.
- Family history related to current and past illness recorded in standard format.

9	10	<b>TASK TRAINING DATA</b>			
TASK NO:	T. E. No.	TECHNICAL KNOWLEDGE	APPLIED CALCULATIONS	GRAPHIC INFORMATION	SAFETY & HYGENE
1	1	Knowledge of importance of history taking.			
	2	Knowledge of purpose of history taking.			
	3	Knowledge of relevance of ocular illness to the systemic disease, hereditary disease.			

<b>TASK PERFORMANCE TEST (SKILL ASSESSMENT)</b>			
11	TASK TITLE : Taking history of patient TASK NO : 1		LOCATION OF TEST : CANDIDATE'S NAME : EVALUATORS NAMES:
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	DID THE CANDIDATE? 1.1 Approach the patients in a friendly way. 1.2 Identify patient. 1.3 Record history of present, past, systemic/ocular illness, previous treatment in standard format. 1.4 Record the family history in standard format. 1.5 Report to the supervisor with crucial information.		

## TASK SPECIFICATION

5	TASK NO: 2 Performing visual acuity examinations.
6	Task Elements: 2.1 Selects appropriate equipment. 2.2 Takes visual acuity for near and distance. 2.3 Takes subjective and objective visual acuity. 2.4 Takes visual acuity in infants, preverbal, verbal, illiterate and intellectually handicapped patients. 2.5 Records the visual acuity according to prescribed method and reports to supervisor.

## TASK SPECIFICATION

7	TASK PERFORMANCE REQUIREMENTS <ul style="list-style-type: none"><li>• Visual acuity charts (Near &amp; Distance): Snellen's chart, Logmar chart, Broken Ring chart, HTOV chart, Catford drum, Preferential Looking Chart, Jaeger's chart etc.</li><li>• Torch Light, Occluder, Pin hole disc.</li><li>• Record form.</li></ul>
8	TASK PERFORMANCE STANDARDS <ul style="list-style-type: none"><li>• Equipment selected as required.</li><li>• Equipment calibrated according to manual.</li><li>• Patient visual acuity measured with physical requirement and prescribed procedures.</li><li>• Subjective and objective visual acuity assessed in different types of patients (Infants, preverbal, illiterate and intellectually handicapped) according to prescribed protocol.</li><li>• Visual acuity recorded and reported to supervisor.</li></ul>

9	10	<b>TASK TRAINING DATA</b>			
TASK NO:	T. E. No.	TECHNICAL KNOWLEDGE	APPLIED CALCULATIONS	GRAPHIC INFORMATION	SAFETY & HYGENE
2	1 2 3 4 5 6	<p>1 Knowledge of types of chart/procedure visual acuity charts (Near &amp; Distance): Snellen's chart, Logmar chart, Broken Ring, HTOV chart, Catford Drum, Preferential looking, Jaeger's chart to be used for VA test for different age group (in infants, preverbal, verbal patients and different variety Patient (illiterate and intellectually handicapped)).</p> <p>2 Knowledge on terminology and conversion used in different VA testing procedure.</p> <p>3 Knowledge on correct procedure to be used according VA testing materials and patients.</p> <p>4 Knowledge of WHO classification of Visual Impairment, Blindness and Low Vision.</p> <p>5 Knowledge of interpretation of the findings of test.</p> <p>6 Knowledge of artefacts in vision taking.</p>			

<b>TASK PERFORMANCE TEST (SKILL ASSESSMENT)</b>			
11	TASK TITLE : Performing visual acuity examinations. TASK NO : 2		LOCATION OF TEST :  CANDIDATE'S NAME :  EVALUATORS NAMES:
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	DID THE CANDIDATE? 2.1 Select equipment as required. 2.2 Calibrate equipment according to manual. 2.3 Measure patient's visual acuity with physical requirement and prescribed procedures. 2.4 Assess subjective and objective visual acuity in different types of patients (Infants, preverbal, illiterate and intellectually handicapped) according to prescribed protocol. 2.5 Record prescribed Visual acuity and report to supervisor.		

## TASK SPECIFICATION

5	TASK NO: 3 Performing visual field examination.
6	Task Elements: 3.1 Prepares necessary instruments/equipment and appropriate environment. 3.2 Prepares patient with necessary instructions. 3.3 Performs visual field examination for glaucoma. 3.4 Performs visual field examination for neurological defects. 3.5 Performs visual field examination for retinal defects. 3.6 Records and reports to supervisor.

## TASK SPECIFICATION

7	TASK PERFORMANCE REQUIREMENTS <ul style="list-style-type: none"><li>• Lister perimeter, Goldmann perimeter, Bjerrum's screen, Automated perimeter</li><li>• Torch, visual field record chart, occluder, tape, pencils/marker etc.</li></ul>
8	TASK PERFORMANCE STANDARDS <ul style="list-style-type: none"><li>• Machine calibrated according to manual.</li><li>• Patient prepared with instruction.</li><li>• Visual field examination performed for glaucoma, neurological defects and retinal defects according to manual.</li><li>• Findings of visual field examination recorded in standard format.</li><li>• Findings of visual field examination reported to supervisor.</li></ul>

9	10	<b>TASK TRAINING DATA</b>			
TASK NO:	T. E. No.	TECHNICAL KNOWLEDGE	APPLIED CALCULATIONS	GRAPHIC INFORMATION	SAFETY & HYGENE
3	1	Knowledge of norms and dimension of visual field.			
	2	Knowledge of physiological and pathological scotoma and field defect.			
	3	Knowledge of preventive maintenance and appropriate handling of equipment.			
	4	Knowledge of effective communication for different categories of patient.			
	5	Knowledge of terminology used in visual field test.			

<b>TASK PERFORMANCE TEST (SKILL ASSESSMENT)</b>			
11	TASK TITLE : Performing visual field examination. TASK NO : 3		LOCATION OF TEST : CANDIDATE'S NAME : EVALUATORS NAMES:
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	DID THE CANDIDATE? 3.1 Approach the patients in friendly way. 3.2 Calibrate the equipment according to manual. 3.3 Prepare patient with instruction. 3.4 Perform visual field examination for glaucoma, neurological defects and retinal defects according to manual. 3.5 Record the findings of visual field examination in standard format and report to supervisor.		

## TASK SPECIFICATION

5	<p>TASK NO: 4</p> <p>Performing objective and subjective refraction for all type of patients (children, adult, intellectually and physically handicapped) and suggest appropriate optical correction.</p>
6	<p>Task Elements:</p> <p>4.1 Determines refractive anomalies.</p> <p>4.2 Performs objective refraction.</p> <p>4.3 Performs subjective refraction.</p> <p>4.4 Prescribes spectacles, contact lenses and prisms as required.</p>

## TASK SPECIFICATION

7	<p>TASK PERFORMANCE REQUIREMENTS</p> <ul style="list-style-type: none"><li>• Different types of vision charts, Trail lens sets, Trail frames, Retinoscope, Skiascopy rack, Lensometer, Cross cylinder, Halberg's clip, IPD ruler, Autorefractometer and Pin hole disc</li></ul>
8	<p>TASK PERFORMANCE STANDARDS</p> <ul style="list-style-type: none"><li>• Refractive anomalies determined.</li><li>• Objective and objective refraction performed.</li><li>• IPD and vertex distance measured.</li><li>• Prescription dispensed for different types of lenses.</li></ul>

9	10	<b>TASK TRAINING DATA</b>			
TASK NO:	T. E. No.	TECHNICAL KNOWLEDGE	APPLIED CALCULATIONS	GRAPHIC INFORMATION	SAFETY & HYGENE
4	1	Knowledge of refractive anomalies.			
	2	Knowledge of physical and geometric optics.			
	3	Knowledge of correction of refractive errors in patients with strabismus its indications and contra-indications.			
	4	Knowledge of prescriptions of prisms, contact lenses and glasses for patients with strabismus , its indications and contraindications.			
	5	Knowledge on effect of contact lens and spectacle lens on different types of strabismus.			
	6	Knowledge on correction of anisometropia, presbyopia in adult strabismus patients.			
	7	Knowledge on strengths and types of prism.			
	8	Knowledge of therapeutic use of prisms in conjunction with orthoptic therapy.			
	9	Knowledge of implication and contra indications for prescribing prisms.			

<b>TASK PERFORMANCE TEST (SKILL ASSESSMENT)</b>			
11	TASK TITLE : Performing subjective and objective refraction for all type of patients (children, adult, intellectually and physically handicapped) and suggest appropriate optical correction.  TASK NO : 4	LOCATION OF TEST :  CANDIDATE'S NAME :  EVALUATORS NAMES:	
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<p>DID THE CANDIDATE?</p> <p>4.1 Determine refractive anomalies.</p> <p>4.2 Perform objective and subjective refraction as required.</p> <p>4.3 Measure IPD and vertex distance.</p> <p>4.4 Dispense prescription for spectacles, contact lens and prism as required.</p> <p>4.5 Record and recommend to supervisor.</p>		

## TASK SPECIFICATION

5

TASK NO: 5

Evaluating sensory and motor functions of the eyes including defective vision, diplopia, problems of depth perception, fusion, visual discomfort, different types of strabismus (latent, manifest, comitant, incomitant etc), restriction of eye movement and disturbance of binocular vision resulting from neurological problems.

6

Task Elements:

- 5.1 Selects appropriate testing equipment/materials.
- 5.2 Prepares testing equipment/materials.
- 5.3 Performs the following test :
  - a) Cover test for near and distance:- Cover uncover test, Cross cover test
  - b) Stereo test
  - c) Prism cover test in all direction of gaze
  - c) Ocular movement test in nine cardinal directions of gaze
  - d) Hess Screen /Less screen test
  - e) Diplopia test
  - f) Test for convergence
  - g) Test for accommodation
  - h) Bagolini test
  - i) Worth Four Dot test
  - j) Four prism diopter test
  - k) Hirschberg test
  - l) Krinsky's test (Prism reflection test)
  - m) Maddox wing test
  - n) Maddox rod test
  - o) Double Maddox rod test
  - p) Synoptophore examination
  - q) Bruckner's test
  - r) After image test
  - s) Ishihara test

## TASK SPECIFICATION

7	<p><b>TASK PERFORMANCE REQUIREMENTS</b></p> <ul style="list-style-type: none"> <li>• Prisms sets (loose and bar)</li> <li>• Stereoscopic vision chart ( Titmus Fly Chart, Randot Chart, Lang, TNO etc)</li> <li>• Worth Four Dot Test</li> <li>• Synoptophore</li> <li>• Perimeters ( Goldmann Perimeter, Arc perimeter -Listers perimeter)</li> <li>• Hess screen / Lees screen</li> <li>• Trial Set</li> <li>• Retinoscope</li> </ul>	<ul style="list-style-type: none"> <li>• Ophthalmoscope</li> <li>• Red and Green goggles, red filter</li> <li>• Occluders , fixation target, fixation light</li> <li>• Royal Airforce Rule</li> <li>• Bagolini Glasses</li> <li>• Maddox Rod</li> <li>• Maddox Wing</li> <li>• Ishihara plates</li> </ul>
8	<p><b>TASK PERFORMANCE STANDARDS</b></p> <ul style="list-style-type: none"> <li>• Equipment and materials selected and prepared as required for testing .</li> <li>• Cover test performed for near at 33 cm (<math>\pm 7</math> cm) &amp; distance at 6m (<math>\pm 1</math>m) using suitable target according to the type of patient &amp; deviation.</li> <li>• Stereo-test performed by using chart as required.</li> <li>• Hirshberg test performed by using fixation light at 33 cm (<math>\pm 7</math> cm) distance.</li> <li>• Krimsky test performed by using prism at 33 cm (<math>\pm 7</math> cm) distance.</li> <li>• Prism cover test performed according to type of deviation.</li> <li>• Ocular movement examination performed in nine cardinal directions of gaze.</li> <li>• Convergence test performed by using suitable fixation target.</li> <li>• Accommodation test performed by using accommodative target.</li> <li>• Maddox wing test performed according to type of deviation.</li> <li>• Maddox rod test performed at required distance.</li> <li>• Double maddox rod test performed at required distance.</li> <li>• Four prism diopter test performed by holding the prism as required.</li> <li>• Worth four dot test performed by using instrument at required distance.</li> <li>• Bagoloni test performed by holding the fixation light at required distance.</li> <li>• Synoptophore examination performed after calibrating instrument according to the manual.</li> </ul>	

9	10	<b>TASK TRAINING DATA</b>			
TASK NO:	T. E. No.	TECHNICAL KNOWLEDGE	APPLIED CALCULATIONS	GRAPHIC INFORMATION	SAFETY & HYGENE
5	1	Knowledge of sensory physiology of normal binocular vision.			
	2	Knowledge of sensory abnormalities of binocular vision including diplopia, confusion, suppression, amblyopia, eccentric fixation and abnormal retinal correspondence.			
	3	<p>Knowledge of various diagnostic tests of orthoptic evaluation (sensory and motor evaluation of non-paretic strabismus and paretic strabismus) using different methods and techniques</p> <ul style="list-style-type: none"> <li>a) Cover test for near and distance</li> <li>b) Cover uncover test</li> <li>c) Cross cover test</li> <li>d) Stereo test</li> <li>e) Prism cover test in all direction of gaze</li> <li>f) Ocular movement test in nine cardinal of gaze</li> <li>g) Hess Screen /Less screen test</li> <li>h) Diplopia test</li> <li>i) Test for convergence</li> <li>j) Test for accommodation</li> <li>k) Bagolini test</li> <li>l) Worth Four Dot test</li> <li>m) Four prism diopter test</li> <li>n) Hirschberg test</li> </ul>			

		<ul style="list-style-type: none"> <li>o) Krimsky's test (Prism reflection test)</li> <li>p) Maddox wing test</li> <li>q) Maddox rod test</li> <li>r) Double Maddox rod test</li> <li>s) Synoptophore examination</li> <li>t) Bruckner's test</li> <li>u) After image test</li> </ul>			
4		Knowledge of interpretation of the results of the tests.			
5		Knowledge of the theory, physiology, types, defects of colour vision and performing clinical investigation of colour vision.			
6		Knowledge of motor and sensory abnormalities of non-paretic strabismus.			
7		Knowledge of types, signs, symptoms and investigation of heterophoria.			
8		Knowledge of aetiology, signs, symptoms and investigation of A and V patterns.			
9		Knowledge of aetiology, signs, symptoms and investigation vertical strabismus including DVD .			
10					

11	Knowledge of investigation of strabismus in children.			
12	Knowledge of genetics and congenital and developmental problems.			
13	Knowledge of investigation of strabismus in adults.			
14	Knowledge of neuro-anatomy, paretic strabismus, syndromes, and systemic diseases.			
15	Knowledge of basic anatomy of brain, cranial nerves, spinal cord, autonomic nervous system, pupil and visual pathways.			
16	Knowledge of aetiology, signs, symptoms and investigation of infranuclear disorders.			
17	Knowledge of aetiology, signs, symptoms, investigation of internuclear disorders.			
18	Knowledge of aetiology, signs, symptoms and investigation of supranuclear disorders.			
19	Knowledge of aetiology, signs, symptoms and investigation of oculo-motor syndromes.			
20	Knowledge of aetiology, signs, symptoms and investigation of restrictive strabismus.			
21	Knowledge of signs, symptoms and investigation of systemic diseases with oculo-motor involvement.			
	Knowledge of aetiology, definitions, classification and examination of nystagmus.			

<b>TASK PERFORMANCE TEST (SKILL ASSESSMENT)</b>			
11	<p>TASK TITLE : Evaluating sensory and motor functions of the eyes including defective vision, diplopia, problems of depth perception, fusion, visual discomfort, different types of strabismus (latent, manifest, comitant, incomitant etc), restriction of eye movement and disturbance of binocular vision resulting from neurological problems.</p> <p>TASK NO : 5</p>		<p>LOCATION OF TEST :</p> <p>CANDIDATE'S NAME :</p> <p>EVALUATORS NAMES:</p>
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<p>DID THE CANDIDATE?</p> <p>5.1 Approach the patients in a friendly way.</p> <p>5.2 Select and prepare equipment and materials as required.</p> <p>5.3 Perform cover test for near at 33 cm (<math>\pm</math> 7 cm) and distance at 6m (<math>\pm</math> 1m) using target according to the type of patient and deviation.</p> <p>5.4 Perform stereo-test by using chart as required.</p> <p>5.5 Perform Hirshberg test by using torch light at 33 cm (<math>\pm</math> 7 cm) distance.</p> <p>5.6 Perform Krimsky test by using prism at 33 cm (<math>\pm</math> 7 cm) distance.</p> <p>5.7 Perform prism cover test according to type of deviation.</p>		

	<p>5.8 Perform ocular movement examination in nine cardinal directions of gaze.</p> <p>5.9 Perform convergence test by using fixation target.</p> <p>5.10 Perform accommodation test by using accommodative target.</p> <p>5.11 Perform Maddox wing test according to type of deviation.</p> <p>5.12 Perform Maddox rod test at required distance.</p> <p>5.13 Perform Double Maddox rod test at required distance.</p> <p>5.14 Perform Four prism diopter test by holding the prism at required distance.</p> <p>5.15 Perform Worth four dot test by using instrument at required distance.</p> <p>5.16 Perform Bagolini test by holding the fixation light at required distance.</p> <p>5.17 Perform Synoptophore examination after calibrating instrument according to the manual.</p> <p>5.18 Record the findings of the test in standard format.</p> <p>5.19 Perform colour vision test correctly</p> <p>5.20 Make provisional diagnosis.</p> <p>5.21 Recommend appropriate treatment or advice.</p> <p>5.22 Report the crucial finding to the supervisor.</p>		
--	---	--	--

## TASK SPECIFICATION

5	<p>TASK NO: 6</p> <p>Performing non surgical management of different types of strabismus (latent, manifest, comitant, incomitant etc), including defective vision, diplopia, problems of depth perception, fusion, visual discomfort, and disturbance of binocular vision, resulting from neurological problems and restriction of eye movements.</p>
6	<p>Task Elements:</p> <p>6..1 Selects patient.</p> <p>6.2 Selects procedure for management.</p> <p>6.3 Performs management of different types of strabismus</p> <ul style="list-style-type: none"><li>• comitant strabismus<ul style="list-style-type: none"><li>- Latent</li><li>- Manifest</li></ul></li><li>• incomitant strabismus</li><li>• restrictive strabismus</li><li>• ocular motor syndrome</li><li>• patients with nystagmus.</li></ul> <p>6.4 Prescribes appropriate glasses and prisms.</p> <p>6.5 Performs appropriate occlusion therapy.</p> <p>6.6 Performs orthoptics exercises.</p> <p>6.7 Recommends for surgery.</p>

## TASK SPECIFICATION

7	<p>TASK PERFORMANCE REQUIREMENTS</p> <ul style="list-style-type: none"><li>• Vision Charts for near and distance ( Snellen's, Logmar, Broken Ring, HTOV chart etc Catford Drum, Preferential Looking Chart)</li><li>• Prisms sets ( loose and bar)</li><li>• Stereoscopic vision chart ( Titmus Fly Chart, Randot Chart, Lang, TNO etc)</li><li>• Synoptophore</li><li>• Trial Set</li><li>• Retinoscope</li><li>• Ophthalmoscope</li><li>• Red and Green goggles</li><li>• Fixation targets/ occluders</li><li>• RAF Rule</li></ul>
8	<p>TASK PERFORMANCE STANDARDS</p> <ul style="list-style-type: none"><li>• Patient selected.</li><li>• Procedure selected for management.</li><li>• Non surgical management performed in cases of comitant , incomitant, restrictive strabismus, ocular motor syndrome, patients with nystagmus.</li><li>• Glasses and prisms prescribed as required.</li><li>• Occlusion therapy performed according to patient age and type of amblyopia.</li><li>• Orthoptics exercise performed according to type of anomaly.</li><li>• Findings recorded and reported to supervisor and recommendations made.</li><li>• Surgery recommended as per case.</li></ul>

9	10	<b>TASK TRAINING DATA</b>			
TASK NO:	T. E. No.	TECHNICAL KNOWLEDGE	APPLIED CALCULATIONS	GRAPHIC INFORMATION	SAFETY & HYGENE
6	1	Knowledge of sensory physiology of normal binocular vision.			
	2	Knowledge of motor physiology of normal binocular vision.			
	3	Knowledge of management of sensory abnormalities of binocular vision including diplopia, confusion, suppression, amblyopia, eccentric fixation and abnormal retinal correspondence.			
	4	Knowledge of interpretation of results of various diagnostic tests of orthoptic evaluation (sensory and motor evaluation of non-paretic strabismus and paretic strabismus) a) Cover test for near and distance a) Cover uncover test b) Cross cover test c) Stereo test d) Prism cover test in all direction of gaze e) Ocular movement test in nine cardinal gaze f) Hess Screen /Less screen test g) Diplopia test h) Test for convergence i) Test for accommodation j) Bagolini test k) Worth Four Dot test l) Four prism diopter test m) Hirschberg test			

	<ul style="list-style-type: none"> <li>n) Krimsky's test (Prism reflection test)</li> <li>o) Maddox wing test</li> <li>p) Maddox rod test</li> <li>q) Double Maddox rod test</li> <li>r) Synoptophore examination</li> <li>s) Bruckner's test</li> <li>t) After image test</li> </ul>			
5	Knowledge of motor and sensory abnormalities of non-paretic strabismus.			
6	Knowledge of types, signs, symptoms and management of heterophoria.			
7	Knowledge of management of strabismus in children.			
8	Knowledge of genetics and congenital and developmental problems.			
9	Knowledge of management of strabismus in adults.			
10	Knowledge of aetiology, signs, symptoms and management of A and V patterns.			
11	Knowledge of aetiology, signs and symptoms and management of vertical strabismus including DVD.			
12	Knowledge of neuro-anatomy, paretic strabismus, syndromes, and systemic diseases.			
13	Knowledge of basic anatomy of brain, cranial nerves, spinal cord, autonomic nervous system, pupil and visual pathways.			
14	Knowledge of aetiology , signs, symptoms and management of infranuclear disorders.			

15	Knowledge of aetiology, signs, symptoms, and management of internuclear disorders.			
16	Knowledge of aetiology, signs, symptoms and management of supranuclear disorders.			
17	Knowledge of aetiology, signs, symptoms, and management of oculo-motor syndromes.			
18	Knowledge of aetiology, signs, symptoms and management of restrictive strabismus.			
19	Knowledge of signs, symptoms and management of systemic diseases with oculo-motor involvement.			
20	Knowledge of aetiology, definitions, classification ,and management of nystagmus.			
21	Knowledge of indications and contraindications of orthoptic treatment.			
22	Knowledge of basic principles of strabismus surgery.			
23	Knowledge of pre-operative management			
24	Knowledge of intra-operative and post-operative complications.			

<b>TASK PERFORMANCE TEST (SKILL ASSESSMENT)</b>			
11	<p>TASK TITLE : Performing non surgical management of different types of strabismus (latent, manifest, comitant, incomitant etc ), including defective vision, diplopia, problems of depth perception, fusion, visual discomfort, and disturbance of binocular vision, resulting from neurological problems and restriction of eye movements.</p> <p>TASK NO : 6</p>		<p>LOCATION OF TEST :</p> <p>CANDIDATE'S NAME :</p> <p>EVALUATORS NAMES:</p>
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<p>DID THE CANDIDATE?</p> <p>6.1 Select patient as required.</p> <p>6.2 Select procedure for management according to case.</p> <p>6.3 Perform non surgical management of comitant , incomitant, restrictive strabismus, ocular motor syndrome and patients with nystagmus according to case.</p> <p>6.4 Prescribe glasses and prisms as required.</p> <p>6.5 Perform occlusion therapy according to patient age and type of amblyopia.</p> <p>6.6 Perform orthoptics exercise according to type of anomaly.</p> <p>6.7 Record findings, report to supervisor and make recommendations.</p> <p>6.8 Recommend surgery as per case.</p>		

## TASK SPECIFICATION

5	TASK NO: 7  Managing community outreach activities and assisting in research related activities.
---	--

6	Task Elements: 7.1 Selects health education and testing materials. 7.2 Imparts eye health education with focus to visual disorder and strabismus 7.3 Plans community activity (like inventory, site selection, logistics, publicity etc) according to need and magnitude of problem. 7.4 Conducts screening camp, school screening programmes with emphasis on visual acuity and ocular motility disorders. 7.5 Assesses the need and magnitude of problem on visual status and binocular vision in community. 7.6 Records the finding and reports to supervisor.
---	---

## TASK SPECIFICATION

7

### TASK PERFORMANCE REQUIREMENTS

- Referral slip
- Occluder
- Different types of vision charts
- Pin hole
- Torch
- Fixation target
- Stereo-test chart
- Health education materials such as posters, brochures etc.

8

### TASK PERFORMANCE STANDARDS

- Community and test materials selected.
- Health education imparted according to problem detected.
- Community activities identified and planned according to need and magnitude of problem.
- Screening camp, school screening programmes conducted with emphasis on visual acuity and ocular motility disorders.
- Need and magnitude of problem on visual status and binocular vision assessed in community.
- Findings recorded and reported to supervisor.

9	10	<b>TASK TRAINING DATA</b>			
TASK NO:	T. E. No.	TECHNICAL KNOWLEDGE	APPLIED CALCULATIONS	GRAPHIC INFORMATION	SAFETY & HYGENE
7	1	Knowledge of communication skills, importance of health education.			
	2	Knowledge of epidemiology of blindness and eye diseases.			
	3	Knowledge of existing eye care service in the country.			
	4	Knowledge of research methodology.			
	5.	Knowledge of basic research protocols.			
	6	Knowledge of community eye health intervention.			

**TASK PERFORMANCE TEST (SKILL ASSESSMENT)**

11	TASK TITLE : Managing community outreach activities and assisting in research related activities. TASK NO : 7	LOCATION OF TEST :  CANDIDATE'S NAME :  EVALUATORS NAMES:	
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	DID THE CANDIDATE? 7.1 Approach the community in friendly convincing way. 7.2 Select community and test materials as required. 7.3 Impart health education according to problem detected. 7.4 Identify and plan community activities according to need and magnitude of problem. 7.5 Conduct screening camps, school screening programmes with emphasis on visual and ocular motility disorders. 7.6 Assess need and magnitude of problem on visual status and binocular vision in community. 7.7 Record and report finding to supervisor.		